

State of California
The Resources Agency

DEPARTMENT OF WATER RESOURCES
Division of Operations and Maintenance

STATE WATER PROJECT OPERATIONS DATA

For the month of:
October
2010

Edmund G. Brown Jr.
Governor
State of California

John Laird
Secretary for Resources
The Resources Agency

Mark Cowin
Director
Department of Water Resources

This monthly report of operational data for the State Water Project has been published since January 1965. Monthly SWP Operations Data Reports from January 1990 have been made available on the Internet at <http://www.water.ca.gov/swp/operationscontrol/projectwide.cfm>. It provides the State Water Service Contractors, public agencies, consultants and others with the daily and monthly status of the Project's water and power operations.

Revisions to these data will appear in the Annual Report of Operations reflecting corrections made after the monthly summaries have been printed.

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MARK COWIN, Director

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The organization shown above represents staff and positions relevant to this report as of publication date on October 2012. It is the Department's policy to not show staff in "Acting" or "Temporary" positions.

Table of Contents

	Page
Organization Page.....	ii
Table of Contents	iii
Monthly Highlights	1
 Oroville Field Division Water Operations	
Table	Page
1 Antelope Lake, Daily Operation.....	2
2 Frenchman Lake, Daily Operation.....	3
3 Lake Davis, Daily Operation.....	4
4 Lake Oroville, Daily Operation.....	5
5 Thermalito Forebay, Including Diversion Pool and Power Canal, Daily Operation.....	6
6 Thermalito Afterbay, Daily Operation	7
7 Oroville-Thermalito Complex, Water Temperature Data	8
 Delta Field Division Water Operations	
8 North Bay Aqueduct, Delta Field Division	9
9 Delta Field Division Plant Data.....	10
10 Clifton Court Forebay, Daily Operation of Gates.....	11
11 Governor Edmund G. Brown California Aqueduct, Delta Field Division, Monthly Deliveries	12
12 South Bay Aqueduct, Delta Field Division, Monthly Deliveries	13
13 Lake Del Valle, Daily Operation	14
 San Luis Field Division Water Operations	
14 Consolidated State-Federal O'Neill Forebay, Daily Operations	15
15 Consolidated State-Federal San Luis Reservoir, Daily Operations	16
16 San Luis Field Division Plant Data	17
17 Consolidated State-Federal Los Banos Reservoir, Daily Operations	18
18 Consolidated State-Federal Little Panoche Reservoir, Daily Operations	19
19 Governor Edmund G. Brown California Aqueduct, San Luis Field Division, Monthly Deliveries.....	20
20 Consolidated State-Federal San Luis Canal, Daily Operations	22
 San Joaquin Field Division Water Operations	
21 San Joaquin Field Division Plant Data	23
22 Governor Edmund G. Brown California Aqueduct, San Joaquin Field Division, Monthly Deliveries.....	24
23 Governor Edmund G. Brown California Aqueduct, San Joaquin Field Division, Monthly Deliveries (Coastal Branch).....	27

Southern Field Division Water Operations

24	Southern Field Division Plant Data.....	28
25	Pyramid Lake, Daily Operation.....	29
26	Elderberry Forebay, Daily Operation.....	30
27	Castaic Lake, Daily Operation.....	31
28	Governor Edmund G. Brown California Aqueduct, Southern Field Division, Monthly Deliveries (West Branch).....	32
29	Silverwood Lake, Daily Operation	33
30	Lake Perris, Daily Operation	34
31	Governor Edmund G. Brown California Aqueduct, Southern Field Division, Monthly Deliveries (East Branch).....	35

Water Quality Operations

32	Water Quality at Selected SWP Locations	37
33	Water Quality at Selected Delta Stations	38
34	Pesticides, Herbicides, and Other Organic Substances Detected in the SWP.....	39

Energy Operations

35	Oroville and Delta Field Divisions Energy Data	40
36	San Luis Field Division Energy Data	41
37	San Joaquin Field Division Pumping Plant Energy Load Data	42
38	Southern Field Division Energy Data	43

MONTHLY HIGHLIGHTS

The following activities highlight actions that affected State Water Project operations during October 2010:

Statewide precipitation was about 280 percent of average for the 2010 - 2011 water-year through October 31. Precipitation percentages are used in this report to express historical and regional comparisons. Additional and more specific information is available on the internet at:
[“http://cdec.water.ca.gov/snow_rain.html”](http://cdec.water.ca.gov/snow_rain.html).

Snowpack data is compiled four times annually, for the months of January, February, March, and April, by the California Department of Water Resources in Bulletin 120. The Bulletin also contains forecasts of seasonal runoff volume from the state's major watersheds, summaries of precipitation, and reservoir storages in various regions of the State.

October snowpack data is not available.

This month is the beginning of the new 2010-2011 water year. A “water year” is a 12-month period, just like a calendar year, except that a water year begins on October 1, and ends on September 30. The intent is to capture data that more fully represents a complete hydrologic cycle of winter and summer as opposed to providing statistical totals that only reflect partial extremes in operational activity.

Cumulative unimpaired runoff for the Sacramento River Region for the 2010 - 2011 water-year was 0.7 maf, 126 percent of average. Statewide runoff for the 2010 - 2011 water-year was 170 percent of average.

Statewide reservoir storage was 105 percent of average to date. Total storage in major SWP reservoirs at the end of October was about 2.72 maf compared to 1.98 maf at this time in 2009. On October 31, end-of-month storage at Lake Oroville was about 1.70 maf, as compared to 1.29 maf at this time in 2009. The State share of San Luis Reservoir's end-of-month storage was about 436 taf, as compared with 176 taf at this time in 2009. The combined storage in SWP's southern reservoirs was about 583 taf, compared with about 510 taf at this time in 2009.

SWP water deliveries to date through October were about maf. Water deliveries are a combination of project, transfer, and exchange classifications. Total deliveries through this same period in 2009 were 2.23 maf.

Conditions in the Delta remained “Balanced” through October 17. On October 18, by mutual agreement between the United States Bureau of Reclamation and the California Department of Water Resources in accordance with Article 6(h) of the COA, accounting of daily COA balances was suspended, conditions remained “balanced”. “Balanced” conditions exist when the DWR and the USBR agree that releases from upstream reservoirs plus unregulated flow approximately equal the water supply needed to meet Sacramento Valley.

On October 20, 2010, Delta Field Division placed a flow restriction of 3390 cfs at Banks Plant due to a dive at the Fish facility to clean intake screens on two submersible pumps. The work was completed on schedule and the flow restriction of 3390 cfs was lifted at 1145 hours.

On October 29, 2010, a Special Condition at Banks Plant was issued for a flow restriction of 6400 cfs due to fish facility pumps in new building.

Table 1. Antelope Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 22,566 ac-ft

October 2010

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Supply Contract	Water Right					
Sep 30	4996.42	17,709									
1	4996.34	17,645	-64	20	0	0	0	4	24	-8	
2	4996.30	17,613	-32	20	0	0	0	4	24	8	
3	4996.26	17,580	-33	20	0	0	0	4	24	7	
4	4996.27	17,588	8	20	0	0	0	4	24	28	
5	4996.26	17,580	-8	20	0	0	0	4	24	20	
6	4996.21	17,540	-40	20	0	0	0	4	24	4	
7	4996.16	17,500	-40	20	0	0	0	4	24	4	
8	4996.11	17,460	-40	20	0	0	0	4	24	4	
9	4996.06	17,420	-40	20	0	0	0	4	24	4	
10	4996.00	17,372	-48	20	0	0	0	4	24	0	
11	4995.95	17,332	-40	20	0	0	0	4	24	4	
12	4995.90	17,292	-40	20	0	0	0	3	23	3	
13	4995.84	17,244	-48	20	0	0	0	3	23	-1	
14	4995.78	17,197	-47	20	0	0	0	3	23	-1	
15	4995.74	17,165	-32	20	0	0	0	3	23	7	
16	4995.68	17,117	-48	20	0	0	0	3	23	-1	
17	4995.62	17,069	-48	20	0	0	0	3	23	-1	
18	4995.57	17,030	-39	20	0	0	0	3	23	3	
19	4995.52	16,991	-39	20	0	0	0	3	23	3	
20	4995.48	16,959	-32	20	0	0	0	3	23	7	
21	4995.41	16,904	-55	20	0	0	0	3	23	-5	
22	4995.36	16,865	-39	20	0	0	0	3	23	3	
23	4995.35	16,857	-8	20	0	0	0	3	23	19	
24	4995.68	17,117	260	20	0	0	0	3	23	154	
25	4995.74	17,165	48	20	0	0	0	3	23	47	
26	4995.74	17,165	0	20	0	0	0	3	23	23	
27	4995.72	17,149	-16	20	0	0	0	3	23	15	
28	4995.68	17,117	-32	20	0	0	0	3	23	7	
29	4995.66	17,102	-15	20	0	0	0	3	23	15	
30	4995.62	17,070	-32	20	0	0	0	3	23	7	
31	4995.58	17,038	-32	20	0	0	0	3	23	7	
Total cfs-days				---	620	0	0	0	104	724	386
Total ac-ft				-671	1,230	0	0	0	206	1,436	765

Table 2. Frenchman Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 55,477 ac-ft

October 2010

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	1/ Water Supply Contract	Water Right					
Sep 30	5560.64	22,040									
1	5560.61	22,013	-27	2	6	0	0	4	12	-2	
2	5560.60	22,004	-9	2	6	0	0	4	12	7	
3	5560.63	22,030	26	2	6	0	0	4	12	25	
4	5560.67	22,065	35	2	3	0	0	4	9	27	
5	5560.70	22,094	29	4	1	0	0	4	9	24	
6	5560.68	22,076	-18	4	1	0	0	4	9	0	
7	5560.68	22,076	0	4	1	0	0	4	9	9	
8	5560.65	22,049	-27	3	1	0	0	4	8	-6	
9	5560.63	22,030	-19	2	1	0	0	4	7	-3	
10	5560.61	22,013	-17	2	1	0	0	4	7	-2	
11	5560.60	22,004	-9	2	1	0	0	4	7	2	
12	5560.61	22,013	9	2	1	0	0	4	7	12	
13	5560.59	21,995	-18	2	1	0	0	4	7	-2	
14	5560.57	21,977	-18	2	2	0	0	4	8	-1	
15	5560.54	21,951	-26	2	2	0	0	4	8	-5	
16	5560.60	22,004	53	2	2	0	0	4	8	35	
17	5560.52	21,933	-71	2	2	0	0	4	8	-28	
18	5560.52	21,933	0	2	2	0	0	4	8	8	
19	5560.52	21,933	0	2	2	0	0	4	8	8	
20	5560.52	21,933	0	2	1	0	0	4	7	7	
21	5560.48	21,897	-36	2	1	0	0	4	7	-11	
22	5560.42	21,844	-53	2	1	0	0	4	7	-20	
23	5560.50	21,915	71	2	1	0	0	4	7	43	
24	5560.64	22,040	125	2	1	0	0	4	7	70	
25	5560.65	22,049	9	2	1	0	0	4	7	12	
26	5560.64	22,040	-9	2	1	0	0	4	7	2	
27	5560.63	22,031	-9	2	1	0	0	4	7	2	
28	5560.62	22,022	-9	2	1	0	0	4	7	2	
29	5560.62	22,022	0	2	1	0	0	4	7	7	
30	5560.62	22,022	0	2	1	0	0	3	6	6	
31	5560.62	22,022	0	2	1	0	0	3	6	6	
Total cfs-days				---	69	54	0	0	122	245	235
Total ac-ft				-18	137	107	0	0	241	485	467

1/ Last Chance Creek Water District.

Table 3. Lake Davis

Daily Operation
(in acre-feet except as noted)

Capacity: 84,371 ac-ft

October 2010

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Right 1/	Water Supply Contract					
Sep 30	5764.93	49,078									
1	5764.91	49,018	-60	8	2.0	0	0	13	23	-7	
2	5764.90	48,988	-30	8	2.0	0	0	13	23	8	
3	5764.95	49,137	149	8	2.0	0	0	13	23	98	
4	5765.01	49,318	181	8	1.6	0	0	13	23	114	
5	5764.99	49,256	-62	9	1.5	0	0	13	23	-8	
6	5764.96	49,164	-92	9	1.5	0	0	13	23	-23	
7	5764.95	49,137	-27	9	1.5	0	0	13	23	9	
8	5764.94	49,107	-30	9	1.5	0	0	13	23	8	
9	5764.93	49,078	-29	9	1.5	0	0	13	23	8	
10	5764.90	48,988	-90	9	1.5	0	0	13	23	-22	
11	5764.90	48,988	0	9	1.5	0	0	13	23	23	
12	5764.89	48,959	-29	9	1.5	0	0	12	22	7	
13	5764.89	48,959	0	9	1.5	0	0	12	22	22	
14	5764.89	48,959	0	9	1.5	0	0	12	22	22	
15	5764.89	48,959	0	9	1.5	0	0	12	22	22	
16	5764.89	48,959	0	10	0.0	0	0	12	22	22	
17	5764.89	48,959	0	10	0.0	0	0	12	22	22	
18	5764.89	48,959	0	10	0.0	0	0	12	22	22	
19	5764.89	48,959	0	10	0.0	0	0	12	22	22	
20	5764.89	48,959	0	10	0.0	0	0	12	22	22	
21	5764.89	48,959	0	10	0.0	0	0	12	22	22	
22	5764.70	48,395	-564	10	0.0	0	0	12	22	-262	
23	5764.74	48,514	119	10	0.0	0	0	12	22	82	
24	5764.96	49,167	653	10	0.0	0	0	12	22	351	
25	5764.95	49,137	-30	10	0.0	0	0	12	22	7	
26	5764.92	49,048	-89	10	0.0	0	0	12	22	-23	
27	5764.90	48,988	-60	10	0.0	0	0	12	22	-8	
28	5764.88	48,929	-59	10	0.0	0	0	12	22	-8	
29	5764.87	48,899	-30	10	0.0	0	0	12	22	7	
30	5764.86	48,869	-30	10	0.0	0	0	12	22	7	
31	5764.85	48,840	-29	10	0.0	0	0	12	22	7	
Total cfs-days				---	286	24	0	0	383	693	573
Total ac-ft				-238	567	48	0	0	759	1,374	1,136

1/ Includes unclassified non-project diversions to local agencies (Valberti and Romelli).

Table 4. Lake Oroville

Daily Operation

(in acre-feet except as noted)

Capacity: 3,537, 580 ac-ft

October 2010

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow							Inflow	
				Hyatt Powerplant Generation 1/	Palermo Canal 2/	Lime Saddle Marina	Butte County Del Oro	Evaporation 3/	Spill	Total Outflow	Hyatt Powerplant Pumpback	Computed Inflow 4/
Sep 30	758.19	1,755,194										
1	757.62	1,749,710	-5,484	8,797	22	0	0	188	0	9,007	0	3,523
2	757.14	1,745,101	-4,609	9,251	22	0	0	117	0	9,390	0	4,781
3	756.99	1,743,663	-1,438	7,447	22	0	0	144	0	7,613	0	6,175
4	756.71	1,740,980	-2,683	7,185	22	0	0	117	0	7,324	0	4,641
5	756.61	1,740,022	-958	5,473	21	0	0	137	0	5,631	0	4,673
6	756.57	1,739,639	-383	5,516	20	0	0	137	0	5,673	0	5,290
7	756.67	1,740,596	957	4,543	19	0	0	69	0	4,631	0	5,588
8	756.33	1,737,343	-3,253	8,098	18	0	0	137	0	8,253	0	5,000
9	756.02	1,734,380	-2,963	6,384	18	0	0	103	0	6,505	0	3,542
10	755.83	1,732,566	-1,814	7,142	18	0	0	96	0	7,256	0	5,442
11	755.46	1,729,037	-3,529	8,058	17	0	0	137	0	8,212	0	4,683
12	755.01	1,724,752	-4,285	7,722	16	0	0	328	0	8,066	0	3,781
13	754.44	1,719,336	-5,416	9,763	16	0	0	190	0	9,969	0	4,553
14	753.95	1,714,689	-4,647	10,720	16	0	0	251	0	10,987	0	6,340
15	752.84	1,704,195	-10,494	14,346	16	0	0	224	0	14,586	0	4,092
16	752.12	1,697,413	-6,782	10,388	16	0	0	142	0	10,546	0	3,764
17	752.26	1,698,730	1,317	4,063	16	0	0	114	0	4,193	0	5,510
18	751.85	1,694,874	-3,856	6,269	16	0	0	27	0	6,312	0	2,456
19	751.62	1,692,714	-2,160	7,110	16	0	0	74	0	7,200	0	5,040
20	750.91	1,686,058	-6,656	8,214	16	0	0	81	0	8,311	0	1,655
21	750.80	1,685,028	-1,030	6,556	16	0	0	60	0	6,632	0	5,602
22	750.60	1,683,158	-1,870	6,200	16	0	0	107	0	6,323	0	4,453
23	750.47	1,681,942	-1,216	6,584	16	0	0	7	0	6,607	0	5,391
24	752.37	1,699,766	17,824	4,485	16	0	0	47	0	4,548	0	22,372
25	753.09	1,706,555	6,789	5,800	8	0	0	47	0	5,855	0	12,644
26	753.00	1,705,705	-850	6,139	4	0	0	108	0	6,251	0	5,401
27	752.78	1,703,629	-2,076	5,831	4	0	1	74	0	5,910	0	3,834
28	752.50	1,700,990	-2,639	6,336	4	0	1	68	0	6,409	0	3,770
29	752.56	1,701,555	565	6,410	4	0	1	14	0	6,429	0	6,994
30	752.62	1,702,121	566	4,427	4	0	1	74	0	4,506	0	5,072
31	752.56	1,701,555	-566	6,980	4	0	1	0	0	6,985	0	6,419
Total		-53,639		222,237	459	0	5	3,419	0	226,120	0	172,481

1/ Includes bypass flows

2/ South Feather Water and Power Agency

3/ Evaporation will be zero for days when there is precipitation or heavy overcast.

4/ Does not include pumpback.

**Table 5. Thermalito Forebay
Including Diversion Pool and Power Canal**

Daily Operation

(in acre-feet except as noted)

October 2010

Capacity: 25,120 ac-ft

Date	Storage 1/	Storage Change	Inflow			Outflow					Losses (-) And Gains (+)
			Lake Oroville Releases 2/	Kelly Ridge Generation	Thermalito Pumping- Generating Plant Pumpback	Thermalito Pumping- Generating Plant Generation 3/	Butte County Cal Water	Thermalito Irrigation District	Releases To River 4/	Hyatt Powerplant Pumpback	
Sep 30	24,236										
1	24,441	205	8,797	446	0	7,369	6	4	1,476	0	-183
2	24,061	-380	9,251	485	0	8,830	6	4	1,416	0	140
3	24,276	215	7,447	428	0	6,573	6	5	1,388	0	312
4	24,177	-99	7,185	10	0	5,988	6	5	1,396	0	101
5	24,187	10	5,473	0	0	3,826	6	5	1,384	0	-242
6	24,343	156	5,516	0	0	3,308	6	5	1,398	0	-643
7	24,027	-316	4,543	0	0	3,623	6	5	1,398	0	173
8	23,619	-408	8,098	0	0	7,183	6	5	1,390	0	78
9	24,096	477	6,384	0	0	4,174	6	5	1,381	0	-341
10	24,521	425	7,142	0	0	5,400	6	5	1,392	0	86
11	24,448	-73	8,058	0	0	6,829	6	5	1,394	0	103
12	24,424	-24	7,722	0	0	6,351	6	5	1,396	0	12
13	24,652	228	9,763	0	0	8,372	6	5	1,398	0	246
14	24,186	-466	10,720	0	0	9,922	6	5	1,367	0	114
15	24,314	128	14,346	143	0	12,910	6	5	1,357	0	-83
16	24,394	80	10,388	457	0	9,548	6	5	1,355	0	149
17	24,443	49	4,063	487	0	3,296	6	5	1,355	0	161
18	24,359	-84	6,269	428	0	5,496	5	5	1,355	0	80
19	24,852	493	7,110	448	0	5,251	5	5	1,355	0	-449
20	24,616	-236	8,214	467	0	6,688	5	5	1,357	0	-862
21	24,267	-349	6,556	486	0	5,349	5	5	1,355	0	-677
22	24,578	311	6,200	480	0	5,050	5	5	1,357	0	48
23	23,792	-786	6,584	489	0	5,354	5	5	1,355	0	-1,140
24	24,712	920	4,485	492	0	2,857	5	5	1,367	0	177
25	23,920	-792	5,800	472	0	5,350	5	5	1,357	0	-347
26	24,522	602	6,139	405	0	4,111	5	5	1,351	0	-470
27	24,863	341	5,831	0	0	3,458	5	5	1,355	0	-667
28	24,913	50	6,336	0	0	3,894	5	5	1,355	0	-1,027
29	24,817	-96	6,410	123	0	5,298	5	5	1,377	0	56
30	24,497	-320	4,427	0	0	3,664	5	5	1,377	0	304
31	24,919	422	6,980	0	0	5,319	5	5	1,375	0	146
Total		683	222,237	6,746	0	180,641	172	153	42,689	0	-4,645

1/ Sum of Thermalito Forebay and Diversion Pool.

2/ Sum of releases from Lake Oroville through Hyatt plant, and spill.

3/ Includes Bypass flows at Thermalito.

4/ The sum of the flows from fish barrier dam and the fish hatchery.

Table 6. Thermalito Afterbay

Daily Operation
(in acre-feet except as noted)

Capacity: 57,040 ac-ft

October 2010

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow	Outflow						Losses (-) and Gains (+)	Total Releases to River 2/	
				Thermalito Pumping-Generating Plant Generation 1/	Sutter Butte Canal	Western Canal Lateral	Richvale Canal	Western Canal	Afterbay River Outlet	Thermalito Pumping-Generating Plant Pumpback			
Sep 30	134.78	49,842											
	1	134.34	48,070	-1,772	7,369	956	4	0	331	8,093	0	243	9,569
	2	134.17	47,393	-677	8,830	952	4	0	335	7,755	0	-461	9,171
	3	133.47	44,646	-2,747	6,573	948	5	0	335	7,755	0	-277	9,143
	4	132.74	41,859	-2,787	5,988	932	3	42	335	7,736	0	273	9,132
	5	131.58	37,603	-4,256	3,826	962	1	69	351	7,101	0	402	8,485
	6	130.60	34,175	-3,428	3,308	978	1	73	383	6,089	0	788	7,487
	7	129.69	31,129	-3,046	3,623	980	1	73	373	5,078	0	-164	6,476
	8	130.03	32,251	1,122	7,183	976	1	73	381	4,146	0	-484	5,536
	9	129.76	31,358	-893	4,174	956	1	73	389	3,749	0	101	5,130
	10	129.70	31,162	-196	5,400	952	1	73	387	3,749	0	-434	5,141
	11	130.02	32,218	1,056	6,829	950	1	77	387	3,749	0	-609	5,143
	12	130.25	32,987	769	6,351	958	1	109	403	3,749	0	-362	5,145
	13	130.83	34,966	1,979	8,372	964	1	202	442	3,749	0	-1,035	5,147
	14	131.86	38,611	3,645	9,922	968	1	244	486	3,669	0	-909	5,036
	15	133.62	45,228	6,617	12,910	966	1	252	547	3,531	0	-996	4,888
	16	134.46	48,550	3,322	9,548	968	1	260	603	3,531	0	-863	4,886
	17	134.01	46,760	-1,790	3,296	960	1	248	637	3,531	0	291	4,886
	18	133.90	46,326	-434	5,496	950	1	311	631	3,531	0	-506	4,886
	19	133.80	45,932	-394	5,251	1,014	1	434	617	3,531	0	-48	4,886
	20	134.12	47,195	1,263	6,688	1,071	1	476	645	3,531	0	299	4,888
	21	134.13	47,234	39	5,349	1,071	1	476	684	3,531	0	453	4,886
	22	133.84	46,090	-1,144	5,050	1,071	1	476	662	3,531	0	-453	4,888
	23	134.03	46,839	749	5,354	1,075	1	478	635	3,531	0	1,115	4,886
	24	133.48	44,684	-2,155	2,857	1,083	1	476	637	3,531	0	716	4,898
	25	133.44	44,529	-155	5,350	998	1	464	615	3,531	0	104	4,888
	26	133.15	43,414	-1,115	4,111	906	1	454	585	3,531	0	251	4,882
	27	132.81	42,123	-1,291	3,458	845	1	422	585	3,511	0	615	4,866
	28	132.64	41,484	-639	3,894	797	1	395	559	3,531	0	750	4,886
	29	132.53	41,073	-411	5,298	752	1	385	502	3,531	0	-538	4,908
	30	132.09	39,448	-1,625	3,664	756	1	387	516	3,531	0	-98	4,908
	31	131.97	39,011	-437	5,319	758	1	385	520	3,511	0	-581	4,886
Total				-10,831	180,641	29,473	43	7,890	15,500	136,154	0	-2,412	178,843

1/ Includes Bypass flows at Thermalito.

2/ The sum of the flows from the fish barrier dam, fish hatchery, and afterbay river outlet.

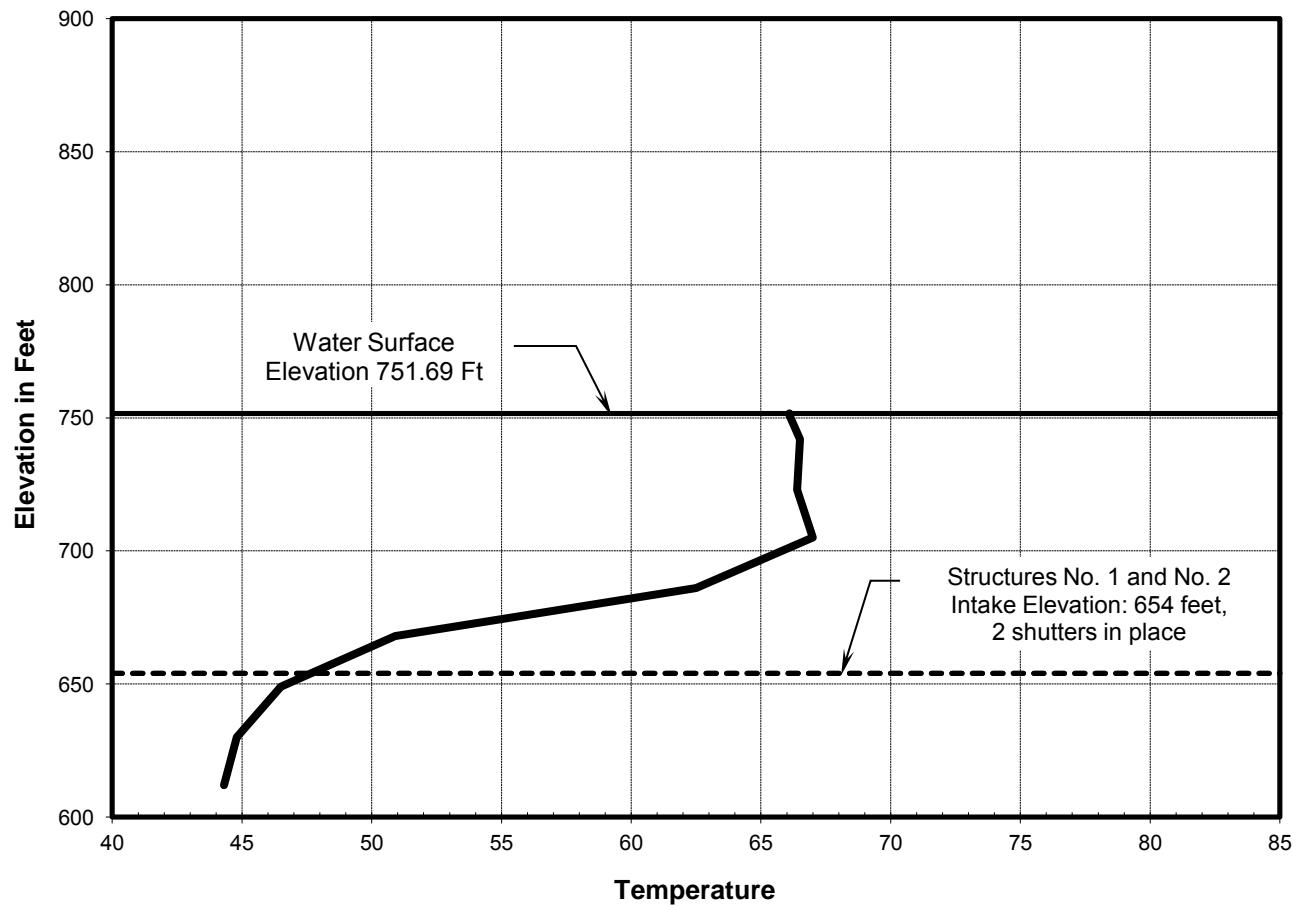
Table 7. Oroville-Thermalito Complex

Water Temperature Data

(in degrees Fahrenheit)

October 2010

Date	Mean Daily Temperature	
	Thermalito Afterbay Outlet	Fish Hatchery
1	59.1	52.6
2	59.8	52.7
3	58.6	53
4	58.7	53.2
5	59.6	53.2
6	59.1	52.6
7	59.2	52.2
8	59.2	52.7
9	60.1	53.3
10	60.4	53.6
11	61	53.8
12	60.2	54
13	60.1	54.2
14	60.1	53.6
15	59.6	53.2
16	57.8	53.3
17	57.5	53.1
18	57.2	53.5
19	57.3	54.2
20	57.4	53.8
21	56.8	53.3
22	56.7	54.7
23	56.6	55
24	56.3	52.4
25	56.5	51.9
26	56.1	51.7
27	55.4	51.1
28	55.4	51.2
29	55.3	51.4
30	55.1	51.6
31	55.4	51.8

**Lake Oroville Temperature Profile
on October 20, 2010**

Note: Water surface elevations on Table 4 are taken at Oroville Dam at midnight and may differ slightly from those shown on this table which are normally taken at mid-day and upstream from Oroville Dam.

Table 8. North Bay Aqueduct
Delta Field Division, Monthly Deliveries

(In acre-feet)

October 2010

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A	Permit	Article 56C	Settlement	Other		
	No.	Structure	Mile									
1	1	Barker Slough Pumping Plant	0.17	(Into the North Bay Aqueduct)	5,131	279	258	900	346			
		Travis Surge Tank	8.78									
			8.80	Solano County Water Agency Travis AFB	258							
			10.54	Solano County Water Agency Fairfield / Vacaville 24"	279							
				Solano County Water Agency Fairfield / Vacaville 42"	1,767							
			17.00	Solano County Water Agency Central Solano	Stub							
2	3A	Cordelia Forebay	21.23			900	2/ 321	158				
		Cordelia Pumping Plant & Cordelia Spillway	21.30		2,750							
3B	2	Napa Pipeline	21.33	Solano County Water Agency Vallejo	549	1/ 228	2/ 321					
				Solano County Water Agency Benicia	1,058							
		Cordelia Surge Tank	23.33									
		Creston Surge Tank Connection	25.65									
			26.95	Napa County Flood Control & WCD American Canyon 2	261							
			27.27	Napa County Flood Control & WCD American Canyon 3	0							
		Napa Terminal Tank	27.58	City of Napa	879							
			27.60	Napa County Flood Control & WCD American Canyon 1	3							

1/ Includes 5 AF of Napa Co. FC&WCD Table A through Solano's Turnout for delivery to American Canyon.

2/ Includes 9 AF of Solano Permit water sold to American Canyon, delivered to Cordelia Forebay and pumped to American Canyon.

Table 9. Delta Field Division Plant Data

(in acre-feet)

October 2010

Date	North Bay Aqueduct		California Aqueduct		South Bay Aqueduct			
	Barker Slough Pumping Plant	Cordelia Pumping Plant	Banks Pumping Plant		South Bay Pumping Plant	Del Valle Pumping Plant		
			Total	SWP		Into Lake	Into Aqueduct	Gravity Flow Through Plant Into Aqueduct
1	219	121	11,815	9,977	454	0	0	0
2	198	104	11,633	9,795	445	0	0	0
3	206	112	12,112	10,274	388	0	0	0
4	195	102	12,019	10,181	411	0	0	0
5	170	85	12,035	10,197	477	47	0	0
6	185	93	11,592	9,754	545	0	0	0
7	173	80	11,884	10,046	523	89	0	0
8	191	99	10,988	9,150	514	89	0	0
9	172	90	11,871	10,039	506	89	0	0
10	151	72	11,871	10,033	521	0	0	0
11	158	76	11,853	11,853	397	0	0	0
12	168	78	9,941	9,941	20	0	0	0
13	177	83	7,259	7,259	21	0	0	279
14	175	80	9,511	9,511	162	0	0	186
15	173	79	7,771	7,771	255	0	0	214
16	175	87	8,817	8,817	310	0	0	0
17	158	74	9,684	9,684	321	0	0	0
18	152	76	9,511	9,511	355	0	0	0
19	142	67	9,880	9,880	303	0	0	23
20	134	63	9,632	9,632	286	0	0	4
21	184	113	8,937	8,937	390	52	0	0
22	146	78	8,678	8,678	431	126	0	0
23	133	65	5,515	5,515	466	159	0	0
24	106	60	5,796	5,796	411	158	0	0
25	174	109	0	0	408	158	0	0
26	180	95	8,820	8,820	442	201	0	0
27	163	112	9,856	9,856	428	225	0	0
28	160	109	11,815	11,815	403	225	0	0
29	141	98	11,726	11,726	447	225	0	0
30	141	98	11,823	11,823	330	119	0	0
31	131	92	11,825	11,825	328	113	0	0
Total	5,131	2,750	306,470	288,096	11,698	2,076	0	705

Table 10. Clifton Court Forebay

Daily Operation of Gates

October 2010

Date	Time										Amount of inflow in Acre-Feet
	Opened	Closed									
1		06:05	10:15	22:30							11,888
2	01:30	06:40	11:15								11,880
3		00:30	02:45	08:50	12:15						11,879
4		01:45	04:00	10:02	13:15	22:30					11,151
5	00:10	02:30	05:15	10:40	14:00	20:46					11,897
6	01:15	03:30	06:15	11:30	14:45	21:00					11,879
7	03:15	11:40	14:35	16:15	19:15						11,894
8		01:00	04:00	12:30							11,881
9		01:05	04:45	13:30	15:30	17:45	20:30				11,899
10		01:50	05:45	14:10	15:45	18:30	21:15				11,890
11		02:30	06:30	19:30	22:00						11,886
12		02:30	07:45	13:40	16:35	17:45					6,935
13	00:01	03:30	08:15	16:16							9,902
14	00:01	04:40	09:30	18:00	20:06	23:00					9,905
15	00:45	05:08	10:30	16:30							7,915
16	02:00	07:00	11:30	19:10							8,918
17	00:01	01:15	03:15	08:20	12:30	16:30					9,380
18	00:01	02:15	04:15	09:00	13:15	20:35					9,354
19	00:37	03:00	05:15	10:30	13:45	21:45					9,908
20	02:30	09:12	13:40	15:15	18:17	21:50					9,901
21	03:15	10:28	14:19	16:00	18:30	21:25					8,917
22	03:45	10:36	15:18	16:30	19:00	20:48					8,913
23	04:15	11:18	19:35	20:55							5,943
24	04:45	12:26	14:50	17:30							5,945
25	00:01	02:15	05:15	13:10	16:05	18:00	21:02				7,915
26		01:30	15:40	18:30	21:47	23:10					8,921
27	00:13	01:47	06:55	19:30	22:00						9,898
28		03:40	07:45	20:30							11,896
29		04:00	09:15	21:45							11,874
30	00:01	03:45	09:45	23:15							11,881
31	01:15	05:00	10:45	19:05	22:00	23:30					10,099
Total inflow for the month in AF:											314,344

Table 11. Governor Edmund G. Brown California Aqueduct

Delta Field Division, Monthly Deliveries

(In acre-feet)

October 2010

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		No.			Table A	USBR	Local Other	Pool A	Pool B		
	No.	Structure										
1A			1.83	Byron-Bethany I.D.	1,223			1,223				
1	1	Banks Pumping Plant	3.32		306,470		76					
		South Bay Pumping Plant	4.49	Bethany Reservoir (Into the South Bay Aquaduct)	11,698							
		Check No. 1	5.95									
			8.08	Alameda Co. Zone 7 WA Mountain House Golf Course	0							
	2	Check No. 2	12.01									
			12.47	Musco Olive	76							
		Check No. 3	18.29									
	3		22.16	Tracy Golf & Country Club	0							
		Check No. 4	23.99									
2A	4	Check No. 5	29.73									
	5	Check No. 6	34.24									
	6		35.22	Turlock Fruit Company Inflow	0							
		Check No. 7	39.91									
	7		42.46	Oak Flat Water District-A	9		9	92	15	10		
			42.9	Western Hills WD	92							
			43.81	Oak Flat Water District-B	15							
			44.64	Oak Flat Water District-C	10							
		Check No. 8	45.97									
2B	8		46.18	Oak Flat Water District-D	57		57	91	0	0		
				Oak Flat Totals:	91							
	9	Check No. 9	51.3				15	0	0	0		
		Check No. 10	56.86									
	10	Check No. 11	61.4				15	0	0	0		
			66.14	Veteran's Cemetery	15							
	11	Check No. 12	66.71		285,558							

Table 12. South Bay Aqueduct
Delta Field Division, Monthly Deliveries

October 2010

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries											
	Beginning and Ending					Table A	Local	Article 56C	Pool A / Pool B								
	No.	Structure	Mile														
1	1	South Bay Pumping Plant	0.00	(into South Bay Aqueduct)	11,698	7	10	1,008	24	26	19						
			3.17	Granite - Vasco Rd. (Temp.)	0												
			3.18	Oakland Scavenger Zone 7	7												
		Check No. 1	3.91														
	2	Check No. 2	5.21														
			7.21	Zone 7 Water Agency Altamont	10												
		3	Check No. 3	Zone 7 Water Agency Patterson Storage Exchange Project Water	0												
2	4	Check No. 4	10.68														
		Check No. 5	12.29														
			13.55	Zone 7 Water Agency Wente #1	24												
			14.16	Zone 7 Water Agency Wente #2	26												
			14.31	Zone 7 Water Agency Ising	19												
		Check No. 6	14.65														
			14.78	Zone 7 Water Agency Arroyo Mocho Project Water	617												
		Check No. 7	16.38														
			16.57	Zone 7 Water Agency Wente #3	0												
			16.63	Zone 7 Water Agency Wente #4	236												
			16.69	Zone 7 Water Agency Norman Nursery	0												
			16.70	Zone 7 Water Agency Concannon Project Water	23												
		Del Valle Branch Pipeline Junction	18.63	Pumped into Lake Del Valle	2,076												
				Pumped into South Bay Aqueduct	0												
				Gravity into South Bay Aqueduct	705												
5	8	Deliveries through Del Valle Branch Pipeline		Zone 7 Water Agency Arroyo Valle #1 & #2 Project Water	239	239	162	7	23	236	19						
				Storage Exchange Inflow Release	162												
				East Bay Regional Park Dist. Del Valle Recreation	0												
				Zone 7 Water Agency Wente #5	37												
				Zone 7 Water Agency So. Livermore Project Storage Exchange Project Water	0												
				19.20	1,207												
6		La Costa Tunnel	19.21	Zone 7 - Kalthrof Detjens	49	49	1,207	7	49	1,207	236						
				ACWD - Vallecitos Project Water	0												
7		Mission Tunnel	22.50	City of San Francisco San Antonio	0	462	1,663	1/ 4,528	462	1,663	239						
				ACWD - Bayside 1 & 2 Project Water Storage Exchange	2,125												
8		Santa Clara Pipeline	28.97	S.C.V.W.D. Meter	0	1/ 4,528	1,663	7	462	1,663	239						

1/ Delivery of Metropolitan WD water stored in Shasta to Santa Clara Valley WD in exchange for Santa Clara Valley WD Table A water.

Table 13. Lake Del Valle
Daily Operation

Capacity: 77,106 ac-ft

October 2010

Date	Water Surface Elevation (feet)	Storage	Storage Change	Inflow		Outflow					Precipitation (inches)
				Natural 1/	From South Bay Aqueduct	Arroyo Valle	South Bay Aqueduct 2/	Recreation Deliveries 3/	Evaporation	Total Outflow	
Sep 30	697.58	36,194									
1	697.55	36,174	-20	-7	0	0	0	1	12	13	0.00
2	697.52	36,154	-20	-11	0	0	0	1	8	9	0.00
3	697.49	36,134	-20	-8	0	0	0	1	11	12	0.00
4	697.44	36,100	-33	-20	0	0	0	1	12	13	0.00
5	697.49	36,134	33	-8	47	0	0	1	4	5	0.00
6	697.59	36,200	67	76	0	0	0	1	9	10	0.00
7	697.70	36,273	73	-8	89	0	0	1	6	7	0.00
8	697.80	36,340	67	-14	89	0	0	0	8	8	0.00
9	697.91	36,414	73	-8	89	0	0	0	7	7	0.00
10	698.02	36,487	74	83	0	0	0	0	10	10	0.00
11	698.07	36,521	33	44	0	0	0	0	11	11	0.00
12	697.75	36,307	-214	-200	0	0	0	0	14	14	0.00
13	697.42	36,087	-220	74	0	0	279	0	15	293	0.00
14	697.14	35,895	-192	9	0	0	186	0	15	201	0.00
15	697.00	35,808	-87	141	0	0	214	0	14	228	0.00
16	696.94	35,769	-40	-28	0	0	0	0	12	12	0.00
17	696.96	35,782	13	22	0	0	0	0	9	9	0.00
18	696.94	35,769	-13	-11	0	0	0	0	2	2	0.17
19	696.90	35,742	-26	2	0	0	23	0	5	28	0.00
20	696.87	35,722	-20	-10	0	0	4	0	6	10	0.00
21	696.91	35,749	26	-18	52	0	0	0	7	7	0.00
22	697.08	35,861	113	-9	126	0	0	0	5	5	0.00
23	697.25	35,974	113	-44	159	0	0	0	2	2	0.06
24	697.50	36,140	166	11	158	0	0	0	3	3	0.08
25	697.71	36,280	140	-16	158	0	0	0	2	2	0.42
26	697.96	36,447	167	-29	201	0	0	0	5	5	0.00
27	698.22	36,621	174	-47	225	0	0	0	4	4	0.00
28	698.50	36,809	188	-32	225	0	0	0	6	6	0.00
29	698.80	37,012	202	-16	225	0	0	0	7	7	0.00
30	698.93	37,099	88	-27	119	0	0	0	4	4	0.12
31	699.04	37,174	74	-35	113	0	0	0	3	3	0.00
Total				980	-146	2,076	0	705	7	238	950
1/ Total inflow from stream gaging station above Lang Canyon and accretions/depletions.											
2/ Project water released to South Bay Aqueduct through Del Valle Pumping Plant.											
3/ To East Bay Regional Park District.											
NR=No Records											

Table 14. Consolidated State-Federal O'Neill Forebay

Daily Operations

October 2010

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity 56,430 ac-ft

Date	Water Surface Elevation (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)				Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)	
				Pump In 1/	O'Neill Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	California Aqueduct	O'Neill Pumping Generating Plant (Generation)	Gianelli Pumping Generating Plant (Pumped)	Dos Amigos Pumping Plant	Deliv-eries 2/		
Sep 30	222.01	48,411											
1	220.98	45,708	-2,703	0	1,537	0	5,402	0	2,051	6,590	13	352	
2	220.75	45,106	-602	0	1,608	0	5,374	0	1,130	6,082	15	-59	
3	221.07	45,944	838	0	1,699	0	5,105	0	0	6,286	7	-89	
4	222.04	48,491	2,547	0	1,619	0	5,918	0	2,032	4,386	5	170	
5	222.19	48,889	398	0	1,616	0	5,732	0	3,005	4,379	11	248	
6	223.49	52,357	3,468	0	1,646	0	4,980	0	0	5,038	11	171	
7	223.91	53,484	1,127	0	1,777	0	5,303	0	2,336	4,063	8	-105	
8	224.15	54,131	647	0	2,030	0	5,408	0	2,778	4,389	8	63	
9	222.32	49,235	-4,896	0	2,274	0	5,605	0	5,189	5,060	8	-90	
10	219.89	42,867	-6,368	0	2,425	0	4,988	0	5,840	4,809	8	34	
11	221.13	46,101	3,234	0	2,390	0	5,690	0	2,489	4,168	2	209	
12	220.68	44,923	-1,178	0	2,267	0	4,324	0	2,771	4,384	10	-20	
13	220.85	45,368	445	0	2,200	0	3,452	0	1,137	4,372	28	109	
14	221.59	47,309	1,941	0	2,127	0	4,186	0	1,334	3,965	22	-13	
15	221.20	46,285	-1,024	0	2,150	0	3,759	0	2,215	4,491	11	292	
16	220.85	45,368	-917	0	2,252	0	4,245	0	1,844	4,883	5	-227	
17	221.06	45,918	550	0	2,311	0	4,225	0	1,847	4,611	7	206	
18	221.21	46,311	393	0	2,492	0	4,448	0	1,845	5,221	3	327	
19	221.89	48,098	1,787	0	2,660	0	4,304	0	1,127	5,022	8	94	
20	222.86	50,673	2,575	0	2,710	0	4,825	0	1,658	4,793	8	222	
21	223.36	52,009	1,336	0	2,878	0	4,109	0	1,658	4,638	12	-5	
22	223.96	53,619	1,610	0	2,932	0	3,746	0	1,120	4,863	7	124	
23	223.21	51,607	-2,012	0	2,929	0	2,289	0	1,122	5,309	2	201	
24	223.17	51,500	-107	0	2,905	0	2,602	0	1,120	4,422	2	-17	
25	223.53	52,464	964	0	2,999	0	3,555	0	1,120	4,947	2	1	
26	223.66	52,813	349	0	3,057	0	3,920	0	2,031	4,852	4	86	
27	223.12	51,367	-1,446	0	3,067	0	4,765	0	3,591	5,173	4	207	
28	222.26	49,075	-2,292	0	3,229	0	5,233	0	4,516	5,153	4	55	
29	222.79	50,486	1,411	0	3,244	0	5,633	0	3,255	5,140	4	233	
30	222.86	50,673	187	0	3,306	0	5,454	0	3,978	4,923	3	238	
31	221.66	47,493	-3,180	0	3,222	0	5,387	0	5,691	4,575	3	57	
Total				-918	0	75,558	0	143,966	0	71,830	150,987	245	3,075
Mean cfs				---	0	2,437	0	4,644	0	2,317	4,871	8	99
Acre-feet				-918	0	149,873	0	285,558	0	142,475	299,479	485	6,090

1/ Pump-in located at Mile 79.67R.

2/ Includes 121 AF delivered to DFG at O'Neill Forebay, 2 AF to Parks & Rec., 67 AF to San Luis Water District, and 154 AF Pump-In Credit.

Table 15. Consolidated State-Federal San Luis Reservoir

Daily Operations

October 2010

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity: 2,027,835 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)			Computed Losses (-) Gains (+) (cfs)
				Gianelli Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	Pacheco Tunnel 1/	Parks and Rec. Del.		
Sep 30	430.83	788,588							
1	431.22	792,194	3,606	2,051	0	163	0	-70	
2	431.50	794,786	2,592	1,130	0	169	0	346	
3	431.43	794,138	-648	0	0	169	0	-158	
4	431.69	796,546	2,408	2,032	0	182	0	-636	
5	432.26	801,836	5,290	3,005	0	170	0	-168	
6	432.27	801,929	93	0	0	179	0	226	
7	432.64	805,369	3,440	2,336	0	171	0	-431	
8	433.15	810,119	4,750	2,778	0	182	0	-201	
9	434.20	819,928	9,809	5,189	0	171	0	-73	
10	435.41	831,282	11,354	5,840	0	160	0	44	
11	435.82	835,141	3,859	2,489	0	195	0	-348	
12	436.15	838,252	3,111	2,771	0	212	0	-991	
13	436.40	840,611	2,359	1,137	0	210	0	262	
14	436.57	842,216	1,605	1,334	0	194	0	-331	
15	436.91	845,430	3,214	2,215	0	199	0	-396	
16	437.29	849,027	3,597	1,844	0	229	0	198	
17	437.59	851,871	2,844	1,847	0	202	0	-211	
18	437.91	854,908	3,037	1,845	0	154	0	-160	
19	438.13	856,997	2,089	1,127	0	133	0	59	
20	438.42	859,755	2,758	1,658	0	120	0	-148	
21	438.70	862,420	2,665	1,658	0	118	0	-196	
22	438.89	864,230	1,810	1,120	0	120	0	-87	
23	439.07	865,946	1,716	1,122	0	115	0	-142	
24	439.29	868,045	2,099	1,120	0	107	0	45	
25	439.49	869,954	1,909	1,120	0	111	0	-47	
26	439.78	872,726	2,772	2,031	0	113	0	-520	
27	440.43	878,949	6,223	3,591	0	111	0	-343	
28	441.28	887,108	8,159	4,516	0	117	0	-286	
29	441.90	893,076	5,968	3,255	0	126	0	-120	
30	442.60	899,830	6,754	3,978	0	116	0	-457	
31	443.76	911,061	11,231	5,691	0	131	0	102	
Total			122,473	71,830	0	4,849	0	-5,238	
Mean cfs			---	2,317	0	156	0	-169	
Acre-feet			122,473	142,475	0	9,626	0	-10,376	

1/ Pacheco Tunnel, San Felipe Split; Santa Clara 6,039 AF, Casa De Fruta 0 AF, and San Benito 0 AF.

Table 16. San Luis Field Division Plant Data

(in acre-feet)

October 2010

Date	Dos Amigos Pumping Plant		Gianelli Pumping - Generating Plant				San Felipe Project
	Total Pumping	SWP Pumping 1/ 2/	Total Generation	SWP Generation 1/ 2/	Total Pumping	SWP Pumping 1/ 2/	Federal
1	13,072	10,749	0	0	4,069	110	324
2	12,063	9,750	0	0	2,241	123	335
3	12,468	10,108	0	0	0	0	335
4	8,700	6,379	0	0	4,030	4,030	361
5	8,686	6,356	0	0	5,960	2,696	337
6	9,992	7,662	0	0	0	0	356
7	8,058	5,706	0	0	4,633	4,633	340
8	8,706	6,347	0	0	5,511	2,227	361
9	10,036	7,728	0	0	10,293	7,086	339
10	9,539	7,608	0	0	11,584	4,713	318
11	8,267	6,396	0	0	4,936	1,720	386
12	8,695	6,830	0	0	5,496	708	421
13	8,672	6,822	0	0	2,256	139	416
14	7,864	6,005	0	0	2,646	2,646	384
15	8,907	7,027	0	0	4,393	2,249	395
16	9,686	7,797	0	0	3,658	1,542	455
17	9,146	7,211	0	0	3,663	461	401
18	10,356	8,463	0	0	3,660	1,534	305
19	9,961	8,063	0	0	2,236	137	263
20	9,507	7,633	0	0	3,288	162	239
21	9,199	7,330	0	0	3,288	165	234
22	9,646	7,725	0	0	2,222	114	239
23	10,530	8,623	0	0	2,226	122	229
24	8,772	6,829	0	0	2,222	121	213
25	9,812	7,907	0	0	2,222	120	221
26	9,623	7,714	0	0	4,028	4,028	225
27	10,260	8,378	0	0	7,122	2,839	221
28	10,221	8,365	0	0	8,957	4,665	233
29	10,196	8,342	0	0	6,456	2,196	249
30	9,764	7,899	0	0	7,891	3,646	231
31	9,075	7,148	0	0	11,288	1,483	260
Total	299,479	236,900	0	0	142,475	56,415	9,626

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

2/ Provisional, subject to change.

Table 17. Consolidated State-Federal Los Banos Reservoir

Daily Operations
October 2010

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Capacity 34,560 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Sep 30	327.26	20,323					
1	327.26	20,323	0	0	0	0	0
2	327.26	20,323	0	0	0	0	0
3	327.26	20,323	0	0	0	0	0
4	327.26	20,323	0	0	0	0	0
5	327.12	20,258	-65	0	0	0	-65
6	327.12	20,258	0	0	0	0	0
7	327.12	20,258	0	0	0	0	0
8	327.12	20,258	0	0	0	0	0
9	327.12	20,258	0	0	0	0	0
10	327.12	20,258	0	0	0	0	0
11	327.12	20,258	0	0	0	0	0
12	327.04	20,220	-38	0	0	0	-38
13	327.04	20,220	0	0	0	0	0
14	327.04	20,220	0	0	0	0	0
15	327.04	20,220	0	0	0	0	0
16	327.04	20,220	0	0	0	0	0
17	327.04	20,220	0	0	0	0	0
18	327.04	20,220	0	0	0	0	0
19	327.04	20,220	0	0	0	0	0
20	326.95	20,179	-41	0	0	0	-41
21	326.95	20,179	0	0	0	0	0
22	326.95	20,179	0	0	0	0	0
23	326.95	20,179	0	0	0	0	0
24	326.95	20,179	0	0	0	0	0
25	326.95	20,179	0	0	0	0	0
26	326.95	20,179	0	0	0	0	0
27	326.95	20,179	0	0	0	0	0
28	326.95	20,179	0	0	0	0	0
29	326.83	20,123	-56	0	0	0	-56
30	326.83	20,123	0	0	0	0	0
31	326.83	20,123	0	0	0	0	0
Total			-200	0	0	0	-200
Mean cfs			---	0	0	0	---
Acre-feet			-200	0	0	0	-200

Table 18. Consolidated State-Federal Little Panoche Reservoir

Daily Operations

October 2010

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity: 5,580 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Sep 30	599.40	654					
1	Not Observed						
2	Not Observed						
3	Not Observed						
4	Not Observed						
5	Not Observed						
6	Not Observed						
7	Not Observed						
8	Not Observed						
9	Not Observed						
10	Not Observed						
11	Not Observed						
12	Not Observed						
13	Not Observed						
14	Not Observed						
15	Not Observed						
16	Not Observed						
17	Not Observed						
18	Not Observed						
19	Not Observed						
20	Not Observed						
21	Not Observed						
22	599.40	654	654	0	0	0	654
23	Not Observed						
24	Not Observed						
25	599.40	654	0	0	0	0	0
26	Not Observed						
27	Not Observed						
28	Not Observed						
29	599.40	654	0	0	0	0	0
30	Not Observed						
31	599.40	654	0	0	0	0	0
Total			654	0	0	0	654
Mean cfs			---	0	0	0	---
Acre-feet			654	0	0	0	654

Table 19. Governor Edmund G. Brown California Aqueduct

San Luis Field Division, Monthly Deliveries

(In acre-feet)

October 2010

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		Mile			USBR	Transfer	DWR Recreation	USBR Recreation			
	No.	Structure										
2B	12	Check No. 12	66.71		285,558							
3A		San Luis Reservoir		Department of Parks and Recreation	0	9,267						
				San Felipe Division Santa Clara Water District	9,267							
				Casa de Fruta Santa Clara Water District	0							
				San Felipe Division San Benito Water District	359		359					
				Reach 3A Subtotal:	9,626		9,626	0	0			
				Department of Parks and Recreation	1		1	0				
3	13	O'Neill Forebay	70.85	Cattle Program	0			50	40			
				Department of Fish & Game	90							
				San Luis Water District	394		394					
		Thru 85.08	70.91	(Floodwater Inflow)	0							
				Reach 3 Subtotal:	485		394	0	51			
		Dos Amigos Pumping Plant	86.73		299,479							
4		14		89.03		4,086		4,086				
				Thru 94.06	San Luis Water District							
				89.66	Pacheco Water District		367					
				89.67								
				89.68	Panoche Water District		53					
				89.70	City of Dos Palos							
		Check No. 14	95.06									
		15		98.15	San Luis Water District	456	456	1,200				
				Thru 104.20								
				96.15	Panoche Water District	1,200						
				102.64	(Floodwater Inflow)							
				102.64	Broadview Water District							
				105.22	Westlands Water District	3,198						
				108.64								
		Check No. 15	108.50									
				Reach 4 Subtotal:	9,455	9,455	0	0	0			
				San Felipe Division Total:	9,626							
				Pacheco Water District Total:	367	367	0	0	0			
				Broadview Water District Total:	0							
				City of Dos Palos Total:	95	95	0	0	0			
				SLWD Reach 4 Subtotal:	4,542		4,542	0	0			
				Panoche Water District Total:	1,253							
				SLWD Total:	4,936	1,253	0	0	0			
				Westlands WD Reach 4 Subtotal:	3,198							

Table 19. Governor Edmund G. Brown California Aqueduct

San Luis Field Division, Monthly Deliveries (Continued)

(In acre-feet)

October 2010

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		Mile			USBR	Transfer	DWR Recreation	USBR Recreation		
	No.	Structure									
5	16		110.52	(Reverse flow, Kings River)	0	6,094		1	0		
				Westlands Water District	6,094						
				Thru Dept. of Fish and Game @ Lat. 4L	1						
				122.05 Dept. of Fish and Game @ Lat. 6L	0						
				Dept. of Fish and Game @ Lat. 7L	0						
			Check No. 16	122.07							
	17		124.18	Westlands Water District	4,175	4,175					
			Thru 132.74								
			Check No. 17	132.95							
6	18		133.81	Westlands Water District	6,615	6,615					
			Thru 142.61								
			Pleasant Valley Pumping Plant	Westlands Water District	6,031						
			143.16	City of Coalinga	512						
			Check No. 18	143.23							
				Reach 5 Subtotal:	23,428	23,427	0	1	0		
				GWF Energy	0						
				City of Huron	2						
			145.26 Thru 151.19	DWR Water Truck @22R	4		4	1/ 220			
				Kings County to Lemoore NAS Through WWD	220						
7	19		Kings County through WWD 30L		0	5,387	5,387				
				Westlands Water District	5,387						
				Check No. 19	155.64						
					Reach 6 Subtotal:						
					5,613						
			156.34	City of Huron	94	94	2,832				
				SWP Construction @ Lat. 24R	0						
				Kings County through WWD 31L, 32L, 33L, 34L, 35L, 36L	0						
				Westlands Water District	2,832						
			Check No. 20	164.69							
	21		164.79	City of Avenal	203	203	1,836				
				Westlands Water District	1,836						
			167.04								
			Thru 171.67								
			Check No. 21	172.40	251,314						
				Reach 7 Total:	4,965	4,965	0	0	0		
				SWP Construction Total:	0						
				Westlands WD Total:	36,168	36,168	0	0	0		
				City of Coalinga Total:	512						
				City of Huron Total:	96	96	0	0	0		
				Kings County to Lemoore NAS Through WWD	220						
				City of Avenal Total:	203						
Total San Luis Field Division Deliveries:					53,572	53,256	224	52	40		

1/ From County of Kings to Westlands Water District.

Table 20. Consolidated State-Federal San Luis Canal 1/

Daily Operations
October 2010

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Date	Storage In Canal (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
			Non- Project	Dos Amigos Pumping Plant	San Luis Water District Pools 14 & 15 2/	Panoche Water District Pools 14 & 15	Westlands Water District Pools 15 thru 21 3/	Flow Past Check 21	
Sep 30	29,144								
1	28,762	-382	0	6,590	115	38	841	6,022	233
2	28,206	-556	0	6,082	115	38	841	5,541	173
3	28,472	266	0	6,286	115	38	841	5,400	242
4	28,939	467	0	4,386	115	38	841	3,211	55
5	28,583	-356	0	4,379	115	30	841	3,410	-162
6	28,977	394	0	5,038	76	23	841	4,062	162
7	28,834	-143	0	4,063	76	23	657	3,481	102
8	29,216	382	0	4,389	76	23	657	3,555	114
9	29,421	205	0	5,060	76	23	657	4,335	135
10	28,640	-781	0	4,809	76	18	657	4,629	177
11	28,933	293	0	4,168	76	18	657	3,340	70
12	28,716	-217	0	4,384	76	18	657	3,913	170
13	29,012	296	0	4,372	88	18	657	3,536	76
14	28,438	-574	0	3,965	88	18	488	3,586	-74
15	28,632	194	0	4,491	88	18	488	3,581	-219
16	28,293	-339	0	4,883	88	18	488	4,216	-244
17	27,928	-365	0	4,611	88	18	488	4,098	-103
18	27,893	-35	0	5,221	88	18	488	4,292	-352
19	27,790	-103	0	5,022	88	18	488	4,244	-236
20	27,786	-4	0	4,793	85	18	488	3,933	-271
21	28,794	1,008	0	4,638	85	20	502	4,026	503
22	27,774	-1,020	0	4,863	85	20	502	3,631	-1,139
23	27,923	149	0	5,309	62	20	502	4,338	-312
24	27,426	-497	0	4,422	62	20	502	4,042	-46
25	27,362	-64	0	4,947	61	20	502	4,298	-98
26	27,154	-208	0	4,852	0	10	502	4,088	-357
27	27,062	-92	0	5,173	60	10	502	4,237	-410
28	27,433	371	0	5,153	60	10	513	4,034	-349
29	28,102	669	0	5,140	60	10	592	3,844	-297
30	28,429	327	0	4,923	60	10	564	3,998	-126
31	28,789	360	0	4,575	60	10	513	3,781	-29
Total		-355	0	150,987	2,463	632	18,757	126,702	-2,612
Mean cfs		---	0	4,871	79	20	605	4,087	-84
Acre-feet		-355	0	299,479	5,004	1,253	37,204	251,314	-5,059

1/ San Luis Canal includes Pools 14 through 21 of the California Aqueduct.

2/ Includes 367 AF to Pacheco W.D., 95 AF to the City of Dos Palos and 4,542 AF to San Luis Water District.

3/ Includes 94 AF to the City of Huron, 203 AF to the City of Avenal, 512 AF to the City of Coalinga, 2 AF to Huron P&R @ 22R, 220 AF to Lemoore N.A.S. @ 29L, 0 AF GWF @ 30L, 4 AF to DWR Water Truck at 22R, 0 AF Kings County @ 30L, 0 AF Broadview WD @ 3L, 1 AF DFG @ 4L, 0 AF Pilibos Wildlife @ 4L, 0 AF Mendota Water Fowl Habitat Area @ 6L, 0 AF DFG @ 7L, 0 AF Non-Project Water, 30,137 AF to Westlands Water District and 6,031 AF to Pleasant Valley Pumping Plant.

Table 21. San Joaquin Field Division Plant Data

(in acre-feet)

October 2010

23

Date	Coastal Aqueduct					California Aqueduct			
	Las Perillas Pumping Plant	Badger Hill Pumping Plant	Devil's Den Pumping Plant	Bluestone Pumping Plant	Polonio Pass Pumping Plant	Buena Vista Pumping Plant	Teerink Pumping Plant	Chrisman Pumping Plant	Edmonston Pumping Plant
1	289	256	108	98	109	7,347	6,845	6,485	6,461
2	314	316	103	95	101	6,836	6,736	6,393	6,370
3	303	258	93	85	93	5,820	6,247	6,022	6,424
4	266	198	85	74	85	3,747	2,901	3,390	3,398
5	221	200	62	56	64	3,065	3,046	2,903	2,820
6	249	247	57	51	59	3,496	2,868	2,674	2,721
7	228	195	50	44	52	3,206	2,785	2,711	2,621
8	281	241	86	78	84	3,441	3,074	2,953	2,846
9	301	264	69	61	69	6,066	5,986	5,793	5,873
10	362	324	77	68	77	5,978	5,792	5,561	5,627
11	258	245	74	67	74	4,749	4,581	4,367	4,373
12	244	230	80	72	82	4,692	4,634	4,502	4,498
13	333	317	88	78	89	4,815	4,546	4,337	4,373
14	290	246	91	83	82	3,983	3,714	3,501	3,524
15	202	205	91	80	94	4,513	4,191	3,984	4,029
16	287	273	91	81	91	5,510	5,282	5,060	5,167
17	222	224	74	67	83	5,720	5,457	5,270	5,313
18	180	179	101	91	101	6,245	6,032	5,864	5,869
19	166	145	82	75	84	6,271	6,286	6,115	6,027
20	218	187	74	66	76	6,056	6,025	5,745	5,667
21	157	158	57	52	60	5,673	5,620	5,397	5,335
22	109	129	48	44	49	5,563	5,644	5,468	5,531
23	229	217	50	44	53	6,187	5,504	6,025	6,029
24	206	229	46	42	50	6,088	6,212	5,351	6,002
25	201	221	54	50	57	6,088	6,077	5,863	5,633
26	322	282	38	36	42	5,563	5,644	5,160	5,467
27	369	298	20	16	20	6,035	6,151	6,008	5,956
28	209	190	49	46	53	6,168	6,145	6,004	5,849
29	40	55	47	40	49	6,088	6,057	5,956	5,958
30	0	13	20	24	39	6,037	5,994	5,821	5,820
31	0	0	22	20	24	5,111	5,563	5,275	5,519
Total	7,056	6,541	2,087	1,884	2,145	166,159	161,639	155,957	157,098

Table 22. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries

(In acre-feet)

October 2010

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A	USBR	Article 56C	Pool A / Pool B	Other		
	No.	Structure	Mile									
7	21	Check No. 21	172.40		251,314							
8C	22			Empire West Side ID TL - A	117	117	762	91	45	556		
				172.66 County of Kings TL - A	0							
				Tulare Lake Basin WSD TL-A	762							
				175.18 Dudley Ridge WD - 1	0							
				177.54 Dudley Ridge WD - 1B	91							
				180.64 Tulare Lake Basin WSD - C	0							
				180.65 Dudley Ridge WD - 1A	45							
				182.99 Dudley Ridge WD - 2	556							
				183.00 Tulare Lake Basin WSD TL - B	0							
				County of Kings TL-B	0							
31A				184.00 Dudley Ridge WD - Paramount	2	2	1,000	0	0	0		
				184.63 Coastal Branch	7,056							
8D				184.78 Dudley Ridge WD - 3	1,000	1,694	0	0	0	0		
				Dudley Ridge Reach 8D Total:	1,694							
9	23			Tulare Lake Basin WSD Total:	762	762	0	0	0	0		
				Check No. 22	184.82							
				189.69 Kern County Water Agency Lost Hills Water Dist. - 1	2,606			2,606	560	466		
				191.18 Kern County Water Agency Lost Hills Water Dist. - 2	560							
				194.22 Kern County Water Agency Lost Hills Water Dist. - 3	466							
				196.40 Kern County Water Agency Berrenda Mesa - 2	58							
				196.75 Kern County Water Agency Lost Hills Water Dist. - 4	735							
				KCWA Reach 9 Subtotal:	4,425		0	0	4,425	0		
				Check No. 23	197.05							
10A	24			201.24 Kern County Water Agency Lost Hills Water Dist. - 7	352	352	469	3	493	1/ 100		
				202.05 Kern County Water Agency Lost Hills Water Dist. - 5	469							
				204.69 Kern County Water Agency Lost Hills Water Dist. - 6	0							
				205.26 Kern County Water Agency Lost Hills Water Dist. - 8	3							
				Check No. 24	207.94							
				209.71 Kern County Water Agency Belridge Water Storage Dist. - 1A	493		4,760	56	10,939	8,585		
				209.78 Kern National Wildlife Refuge USBR BV-1B	4,760							
				Kern County Water Agency Buena Vista WSD 1B	56							
				209.80 KCWA Semitropic WSD	11,039							
				KCWA Semitropic WSD Penstocks	8,585							
				USBR Total:	4,760		0	0	20,897	0		
				KCWA Reach 10A Subtotal:	20,997							

1/ Dudley Ridge Water District same landowner transfer - Sandridge.

Table 22. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Continued)

October 2010

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A	USBR	Article 56C	Pool A / Pool B	Other		
	No.	Structure	Mile									
11B	25		210.75	Kern County Water Agency Belridge - 2	0			113	3,068	2/ 850		
			214.11	Kern County Water Agency Belridge - 3	113							
			216.62	Kern County Water Agency Belridge - 4	0							
			217.13	Kern County Water Agency Belridge - 5A-C	3,918							
				Kern County Water Agency Belridge - 5D	137							
		Check No. 25	217.79									
				KCWA Reach 11B Subtotal:	4,168	0	0	3,318	0	850		
12D	26		219.58	Kern County Water Agency Belridge - 6	0	481		481				
				Kern County Water Agency West Kern - 3	481							
		Check No. 26	224.92									
12E	27		230.37	Kern County Water Agency Buena Vista - 6	0	757		3,609	3/ 23,067			
		Check No. 27	231.73									
	28		235.75	Kern County Water Agency Buena Vista - 2	0							
				Kern County WA CVC	27,433							
				DRWD CVC	0							
				Tulare Co.	0							
			238.04	Lower Tule River	0							
				Fresno Co.	0							
				Pixley ID	0							
				Hacienda								
		Check No. 28	238.11	DWR Wells	0							
				1/ Arvin Edison Total:	0	0	0	0	0	0		
				Reach 12E Subtotal:	27,433	757	0	3,609	0	23,067		
13B	29		238.19	Kern Water Bank Inflow	11,284			11,284				
				Kern Water Bank Outflow	0							
				Kern River Intertie (inflow)	0							
				KCWA Buena Vista WSD - 7	0							
				KCWA Buena Vista WSD - 5	0							
				Kern County Water Agency Buena Vista - 3	0							
		Check No. 29	244.54									
	30		249.85	Kern County Water Agency Buena Vista - 4	0							
			Buena Vista Pumping Plant	250.99	166,159							
				KCWA Reach 13B Subtotal:	11,284	0	0	11,284	0	0		
14A	31		254.47	Kern County Water Agency West Kern - 2	0			53				
			256.11	Kern County Water Agency Wheeler Ridge-Maricopa - 2	53							

1/ Arvin Edison Contractors include Rag Gulch WD, Kern-Tulare WD, Fresno County, Hills Valley ID, Tri Valley WD, Tulare County, Lower Tule River ID, and Pixley ID.

2/ Dudley Ridge Water District same landowner transfer - Sandridge.

3/ Includes 12,325 AF of MWD Table A sent to Kern-Delta, 6,858 AF of MWD Table A sent to Arvin Edison WSD and 3,884 AF of Kern-Tulare WD CVP water.

Table 22. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

October 2010

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries				
	Beginning and Ending		No.	Structure	Mile	Table A	USBR	Article 56C	Pool A / Pool B	Other
	No.	Structure								
14A	31	Check No. 31	256.14							
	32		258.61	Kern County Water Agency Wheeler Ridge-Maricopa - 3	247					
			260.44	Kern County Water Agency Wheeler Ridge-Maricopa - 4	778					
		Check No. 32	261.72							
			KCWA Reach 14A Subtotal:	1,078		0	0	1,078	0	0
14B	33		264.42	Kern County Water Agency Wheeler Ridge-Maricopa - 5	1,581					
			266.91	Kern County Water Agency Wheeler Ridge-Maricopa - 6	336					
		Check No. 33	267.36							
	34		270.24	Kern County Water Agency Wheeler Ridge-Maricopa - 7	1,132					
			Check No. 34	271.27						
			Reach 14B Total:	3,049		0	0	3,049	0	0
14C	35		272.39	Kern County Water Agency Wheeler Ridge-Maricopa - 8	816					1/ 5,574
			276.09	Kern County Water Agency Wheeler Ridge-Maricopa - 9	355					
			277.30	Kern County Water Agency Arvin-Edison WSD	5,574					
			Reach 14C Total:	6,745		0	0	1,171	0	5,574
	Teerink Pumping Plant	278.13			161,639					
15A	36		279.02	Kern County Water Agency Wheeler Ridge-Maricopa - 9A	257					
			280.06	Kern County Water Agency Wheeler Ridge-Maricopa - 10	709					
			Reach 15A Total:	966		0	0	966	0	0
	Chrismen Pumping Plant	280.36			155,957					
	37		282.06	Kern County Water Agency Wheeler Ridge-Maricopa - 11	0					
			Check No. 37	283.95						
16A	38		285.01	Kern County Water Agency Wheeler Ridge-Maricopa - 12	26					
			286.39	Kern County Water Agency Wheeler Ridge-Maricopa - 13A	5					
			287.06	Kern County Water Agency Wheeler Ridge-Maricopa - 13	0					
			Check No. 38	287.09						
			287.62	Kern County Water Agency Wheeler Ridge-Maricopa - 13B	56					
	39		290.21							
			291.26	Kern County Water Agency Wheeler Ridge-Maricopa - 14	564					
			293.07	Kern County Water Agency Wheeler Ridge-Maricopa - 15	97					
				Kern County Water Agency Tehachapi Cummings CWD	0					
			KCWA Reach 16A Subtotal:	748		26	0	722	0	0
17E	Edmonston Pumping Plant	293.45			157,098					

1/ MWD Table A sent to Arvin Edison WSD.

Table 23. Governor Edmund G. Brown California Aqueduct
 San Joaquin Field Division, Monthly Deliveries (Coastal Branch)

(In acre-feet)

October 2010

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		No.			Table A	USBR	Article 56C	Pool A / Pool B	Other	
	No.	Structure	Mile								
31A	C-1	Coastal Branch Control	0.02		7,056						
		Las Perillas Pumping Plant	1.16		7,056						
	C-2		3.79	Green Valley Water District	0						
		Badger Hill Pumping Plant	4.27		6,541						
	C-3	Coastal Check No. 3	7.21								
	C-4		9.34	Castaic Lake WA (Devil's Den WD #1)	0						
		Coastal Check No. 4	9.34								
	C-5	Coastal Check No. 5	12.20								
	C-6		13.30	Kern County Water Agency Berrenda Mesa - 3	413				413	4,487	
			14.83	Kern County Water Agency Berrenda Mesa - 1	4,487						
				Kern County Water Agency Berrenda Mesa - PO	0						
		Devil's Den Pumping Plant	14.86		2,087						
				KCWA Reach 31A Subtotal:	4,900	0	0	4,900	0	0	
				KCWA Total:	86,274	1,264	0	55,419	0	29,591	
33A	C-7	Bluestone Pumping Plant	19.05		1,884						
	C-8	Polonio Pass Pumping Plant	26.54		2,145						
	C-9	Tank Site 1	27.81	(CCWA) Polonio Pass Treatment Plant	0						
	C-10	Shandon T.O.	38.23	Santa Barbara County (CCWA)	1,726						
		Tank Site 2	58.63	Central Coast:	0						
34	C-11	Chorro Valley T.O.	69.31	San Luis Obispo County (CCWA)	453						
		Energy Dissipater	78.12								
		Lopez T.O.	85.86	SLOCFC & WCD	0						
35	C-12			CCWA Total:	2,179	2,179	0	0	0	0	
		Guadalupe T.O.	102.70	SBCFC & WCD	0						
		Santa Maria T.O.	107.43	SBCFC & WCD	0						
		So. Cal. Water T.O.	109.20	SBCFC & WCD	0						
38				SBCFC & WCD Total:	0	0	0	0	0	0	
		Tank Site 5	115.42								

Table 24. Southern Field Division Plant Data

(in acre-feet)

October 2010

Date	West Branch						East Branch								East Branch Extension		
	Oso Pumping Plant	Warne Powerplant			Castaic Powerplant		Alamo Powerplant			Pearblossom Pumping Plant	Mojave Siphon Powerplant			Devil Canyon Powerplant Generation	Green Spot	Crafton Hills	Cherry Valley
		Generation	Leakage	Gorman Crk. Improvement Channel	Generation 1/	Pumpback 1/	Generation	Bypass Through Plant	Tehachapi Afterbay Bypass		Generation	Leakage	Bypass Flume				
1	2,041	1,957	0	0	1,612	0	2,762	0	1,264	3,870	2,731	0	795	4,005	79	79	37
2	3,617	2,545	0	0	872	635	2,701	0	0	3,064	2,007	0	1,176	3,408	77	77	39
3	2,498	2,543	0	0	1,683	0	2,933	0	839	3,064	2,009	0	719	2,623	77	78	38
4	2,457	2,544	0	0	2,352	0	692	0	0	589	429	0	0	2,657	77	77	39
5	2,463	2,541	0	0	2,866	784	297	0	0	0	0	21	0	2,316	78	78	37
6	2,445	2,545	0	0	2,765	0	237	0	0	0	0	16	0	2,143	78	78	37
7	2,331	2,545	0	0	2,782	0	260	0	0	0	0	15	0	2,055	81	81	36
8	2,385	2,546	0	0	3,057	0	611	0	0	311	110	0	0	1,929	81	81	35
9	2,600	2,542	0	0	3,641	0	2,811	0	563	3,064	2,641	0	0	2,065	81	81	35
10	2,069	1,816	0	0	1,618	0	2,836	0	380	3,064	2,967	0	0	2,088	81	81	35
11	1,192	1,008	0	0	2,243	0	2,866	0	315	3,064	2,892	0	0	2,134	68	68	35
12	1,194	1,161	0	0	1,390	0	2,880	0	456	3,064	2,972	0	0	2,167	63	64	37
13	1,105	1,002	0	0	1,690	575	2,908	0	347	3,064	2,976	0	0	2,141	67	66	36
14	0	1,013	0	0	1,932	0	2,765	0	500	3,064	2,914	0	0	2,514	83	81	36
15	420	1,011	0	0	2,106	0	2,881	0	398	3,064	2,933	0	0	2,515	83	81	39
16	1,843	1,009	0	0	550	0	2,941	0	207	3,033	2,911	0	0	2,521	83	82	40
17	1,798	1,016	0	0	1,065	0	2,939	0	512	3,064	2,947	0	0	2,554	82	82	40
18	2,440	2,734	0	0	2,756	0	2,759	0	231	3,064	3,032	0	0	2,545	81	81	40
19	2,645	2,731	0	0	2,864	728	2,883	0	612	3,064	2,818	0	0	2,605	81	81	40
20	2,571	2,723	0	0	2,201	728	2,576	0	6	3,064	2,757	0	522	2,387	81	81	40
21	2,580	2,720	0	0	3,927	581	2,997	0	331	3,064	3,051	0	0	2,610	81	81	40
22	2,565	2,674	0	91	4,695	1,011	2,678	0	0	2,280	2,379	0	0	2,299	82	81	39
23	2,589	2,779	0	0	151	1,245	2,880	0	421	3,064	2,801	0	0	3,088	82	81	39
24	2,590	2,779	0	0	1,076	1,183	2,724	0	397	3,064	2,978	0	0	2,825	81	81	39
25	2,589	2,780	0	0	3,218	0	2,797	0	246	2,764	838	0	2,231	2,795	81	81	39
26	2,935	2,751	0	0	3,186	819	2,479	0	0	2,463	0	0	2,622	2,339	78	78	39
27	2,592	2,606	0	0	3,802	947	2,646	0	549	3,064	0	0	2,981	2,853	80	80	38
28	2,807	2,561	0	0	3,439	0	2,670	0	298	3,064	0	0	2,981	2,830	80	80	36
29	2,841	2,551	0	0	2,893	0	2,911	0	298	3,064	0	0	2,981	2,700	77	77	36
30	2,586	2,546	0	0	944	0	2,992	0	397	3,064	0	0	2,981	2,706	77	77	37
31	2,314	2,552	0	0	667	0	2,847	0	256	3,028	0	0	2,981	2,715	77	77	39
Total	69,102	68,831	0	91	70,043	9,236	75,159	0	9,823	79,618	54,093	52	#####	79,132	2,438	2,432	1,172

1/ Values supplied by LADWP, not verified by DWR.

Table 25. Pyramid Lake
Daily Operation

Capacity: 171,200 ac-ft

(in acre-feet except as noted)

October 2010

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow				Outflow				Computed Losses (-) And Gains (+)	
				Project			Natural	Project		To Piru Creek			
				Castaic Powerplant Pumpback 1/	Warne Power-plant	Gorman Creek Improv. Channel	Stream Flow	Castaic Powerplant Generation 1/	Recrea-tion Deliveries	Natural	Del. To United W.A.		
Sep 30	2573.62	164,308											
1	2574.20	165,042	734	0	1,957	0	6	1,612	0	6	0	389	
2	2575.96	167,281	2,239	635	2,545	0	7	872	0	6	0	-70	
3	2576.67	168,190	909	0	2,543	0	8	1,683	0	6	0	47	
4	2576.74	168,280	90	0	2,544	0	8	2,352	0	6	0	-104	
5	2577.00	168,613	333	784	2,541	0	9	2,866	0	6	0	-129	
6	2576.67	168,190	-423	0	2,545	0	12	2,765	0	6	0	-209	
7	2576.60	168,100	-90	0	2,545	0	13	2,782	1	6	0	141	
8	2576.29	167,703	-397	0	2,546	0	12	3,057	0	6	0	108	
9	2575.52	166,719	-984	0	2,542	0	10	3,641	0	6	0	111	
10	2575.58	166,796	77	0	1,816	0	10	1,618	0	6	0	-125	
11	2574.13	164,953	-1,843	0	1,008	0	9	2,243	0	6	0	-611	
12	2573.90	164,662	-291	0	1,161	0	8	1,390	0	6	0	-64	
13	2573.71	164,422	-240	575	1,002	0	8	1,690	0	6	0	-129	
14	2572.92	163,426	-996	0	1,013	0	8	1,932	0	6	0	-79	
15	2571.98	162,246	-1,180	0	1,011	0	8	2,106	0	6	0	-87	
16	2572.25	162,584	338	0	1,009	0	9	550	0	6	0	-124	
17	2572.08	162,371	-213	0	1,016	0	9	1,065	0	6	0	-167	
18	2572.01	162,283	-88	0	2,734	0	12	2,756	1	6	0	-71	
19	2572.90	163,400	1,117	728	2,731	0	20	2,864	0	6	0	508	
20	2573.29	163,892	492	728	2,723	0	29	2,201	0	9	0	-778	
21	2572.73	163,187	-705	581	2,720	0	21	3,927	0	12	0	-88	
22	2571.96	162,220	-967	1,011	2,674	91	17	4,695	0	12	0	-53	
23	2573.78	164,510	2,290	1,245	2,779	0	16	151	0	12	0	-1,587	
24	2576.76	168,305	3,795	1,183	2,779	0	15	1,076	0	12	0	906	
25	2576.55	168,036	-269	0	2,780	0	15	3,218	0	12	0	166	
26	2576.75	168,292	256	819	2,751	0	14	3,186	0	12	0	-130	
27	2576.46	167,921	-371	947	2,606	0	13	3,802	1	12	0	-122	
28	2575.30	166,439	-1,482	0	2,561	0	13	3,439	0	13	0	-604	
29	2575.30	166,439	0	0	2,551	0	13	2,893	0	13	0	342	
30	2576.44	167,895	1,456	0	2,546	0	15	944	0	14	0	-147	
31	2578.07	169,992	2,097	0	2,552	0	15	667	0	14	0	211	
Total				5,684	9,236	68,831	91	382	70,043	3	261	0	-2,549

1/ Values supplied by LADWP, not verified by DWR.

Table 26. Elderberry Forebay

Daily Operation

(in acre-feet except as noted)

Capacity: 32,476 ac-ft

October 2010

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow			Computed Losses (-) And Gains (+)	
				Castaic Powerplant Generation 1/	Natural	Castaic Powerplant Pumpback 1/	To Castaic Lake			
							Natural	Project 1/		
Sep 30	1509.22	18,885								
1	1509.32	18,924	39	1,612	0	0	0	1,574	1	
2	1509.63	19,042	118	872	0	635	0	0	-119	
3	1513.63	20,608	1,566	1,683	0	0	0	0	-117	
4	1512.31	20,084	-524	2,352	0	0	0	2,923	47	
5	1509.18	18,870	-1,214	2,866	0	784	0	3,255	-41	
6	1508.40	18,574	-296	2,765	0	0	0	3,043	-18	
7	1508.01	18,426	-148	2,782	0	0	0	2,930	0	
8	1508.33	18,547	121	3,057	0	0	0	2,935	-1	
9	1505.81	17,607	-940	3,641	0	0	0	4,583	2	
10	1507.00	18,048	441	1,618	0	0	0	1,175	-2	
11	1513.06	20,381	2,333	2,243	0	0	0	0	90	
12	1512.58	20,191	-190	1,390	0	0	0	1,581	1	
13	1507.34	18,175	-2,016	1,690	0	575	0	3,164	33	
14	1506.25	17,769	-406	1,932	0	0	0	2,327	-11	
15	1509.38	18,946	1,177	2,106	0	0	0	932	3	
16	1511.01	19,575	629	550	0	0	0	0	79	
17	1513.89	20,712	1,137	1,065	0	0	0	0	72	
18	1520.92	23,634	2,922	2,756	0	0	0	0	166	
19	1518.88	22,766	-868	2,864	0	728	0	3,021	17	
20	1512.00	19,962	-2,804	2,201	0	728	0	4,264	-13	
21	1511.45	19,746	-216	3,927	0	581	0	3,553	-9	
22	1511.39	19,723	-23	4,695	0	1,011	0	3,699	-8	
23	1508.77	18,714	-1,009	151	0	1,245	0	0	85	
24	1508.72	18,695	-19	1,076	0	1,183	0	0	88	
25	1516.87	21,926	3,231	3,218	0	0	0	0	13	
26	1515.59	21,400	-526	3,186	0	819	0	2,913	20	
27	1512.71	20,242	-1,158	3,802	0	947	0	3,956	-57	
28	1511.94	19,938	-304	3,439	0	0	0	3,744	1	
29	1504.90	17,273	-2,665	2,893	0	0	0	5,557	-1	
30	1505.80	17,603	330	944	0	0	0	615	1	
31	1507.91	18,389	786	667	0	0	0	0	119	
Total				-496	70,043	0	9,236	0	61,744	
									441	

1/ Values supplied by LADWP, not verified by DWR.

Table 27. Castaic Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 323,699 ac-ft

October 2010

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow		Computed Losses (-) And Gains (+)	
				From Elderberry Forebay 1/		Natural	Deliveries		
				Natural	Project				
Sep 30	1484.53	259,734							
1	1484.26	259,202	-532	0	1,574	0	2,089	40 23	
2	1483.38	257,474	-1,728	0	0	0	1,961	40 273	
3	1482.54	255,830	-1,644	0	0	0	1,873	0 229	
4	1483.09	256,905	1,075	0	2,923	0	1,807	0 -41	
5	1483.89	258,475	1,570	0	3,255	0	1,861	0 176	
6	1484.65	259,970	1,495	0	3,043	0	1,712	0 164	
7	1485.53	261,708	1,738	0	2,930	0	1,288	0 96	
8	1486.42	263,471	1,763	0	2,935	0	1,185	0 13	
9	1487.97	266,558	3,087	0	4,583	0	1,085	0 -411	
10	1487.94	266,499	-59	0	1,175	0	1,262	0 28	
11	1487.26	265,142	-1,357	0	0	0	982	0 -375	
12	1487.49	265,600	458	0	1,581	0	1,425	0 302	
13	1488.37	267,358	1,758	0	3,164	0	1,536	0 130	
14	1488.81	268,240	882	0	2,327	0	1,466	0 21	
15	1488.54	267,699	-541	0	932	0	1,557	0 84	
16	1487.90	266,419	-1,280	0	0	0	1,298	0 18	
17	1487.25	265,122	-1,297	0	0	0	1,229	0 -68	
18	1486.62	263,869	-1,253	0	0	0	1,248	0 -5	
19	1487.69	265,999	2,130	0	3,021	0	1,100	0 209	
20	1489.37	269,364	3,365	0	4,264	0	834	0 -65	
21	1490.77	272,181	2,817	0	3,553	0	626	0 -110	
22	1492.25	275,177	2,996	0	3,699	0	576	0 -127	
23	1491.94	274,548	-629	0	0	0	566	0 -63	
24	1491.66	273,980	-568	0	0	0	542	0 -26	
25	1491.21	273,069	-911	0	0	0	638	0 -273	
26	1492.30	275,279	2,210	0	2,913	0	565	0 -138	
27	1493.93	278,602	3,323	0	3,956	0	522	0 -111	
28	1495.45	281,723	3,121	0	3,744	0	576	0 -47	
29	1497.69	286,359	4,636	0	5,557	0	656	0 -265	
30	1497.70	286,379	20	0	615	0	750	0 155	
31	1497.38	285,714	-665	0	0	0	780	0 115	
Total			25,980	0	61,744	0	35,595	80 -89	

1/ Values supplied by LADWP, not verified by DWR.

Table 28. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (West Branch)

(In acre-feet)

October 2010

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		No.			Table A	Rec.	Pool A	Local	Article 56C	Other	
	No.	Structure	Mile									
29A	42	Oso Pumping Plant	1.49		69,102							
29F	W2	Quail Lake	5.02	Antelope Valley-East Kern Water Agency	Re-moved	3	17	0	1,028	0	0	
		Quail Lake Embankment	7.82	Antelope Valley-East Kern Water Agency	Stub							
29G		Warne Power Plant	14.07	(91 AF of flow through Gorman Creek Imp. Channel)	68,831							
29H	W3	Pyramid Lake		USFS		31,978	945	1,473	154	1,028	0	
				Pyramid Recreation (T300)	3							
				United WA (T300)	0							
		Pyramid Dam	17.10	California State Park								
29J	W4	Castaic Power Plant	25.82	(9,236 AF pumpback) 2/	70,043	34,550	17	0	0	0	0	
		Elderberry Forebay										
		Forebay Dam	28.12									
		Castaic Lake		California State Park								
30 1/	W5	Castaic Dam	31.47	Castaic Lake Recreation (T301)	17	34,550	17	0	0	1,028	0	
		Castaic Lake Outlet		MWDSC 78" & 132" (T302)	33,006							
				Castaic Lake WA 18", 24" & 54" (T303)	945							
			31.6	Castaic Lake WA Rio Vista T.P. (T304)	1,473							
				MWD-Ventura Co. WPD (T302)	154							
				Releases to Lagoon	80							
				Reach 30 Subtotal:	35,595							
	W6	Castaic Lagoon		California State Park Recreation to Lagoon (T353)	0							
		Castaic Lagoon Outlet	31.9		186							

1/ Reach 30 actually terminates at mile 31.50. It is shown here as including the outlet works at mile 31.55.

All deliveries from the outlet works and from the Lagoon are billed to Reach 30.

2/ Value Supplied by LADWP, not verified by DWR.

Table 29. Silverwood Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 74,970 ac-ft

October 2010

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow					Computed Losses (-) And Gains (+)	Las Flores Ranch Exchange 1/	
				Mojave Siphon Power-plant	Mojave Bypass Flume	Natural Stream Flow	Project			Del. To Mojave W.A.	Natural To Mojave River			
Sep 30	3349.77	69,960												
1	3349.32	69,538	-422	2,731	795	0	6	0	4,005	0	0	63	0	
2	3349.29	69,510	-28	2,007	1,176	0	5	0	3,408	0	0	202	0	
3	3349.46	69,669	159	2,009	719	0	5	0	2,623	0	0	59	0	
4	3346.96	67,346	-2,323	429	0	0	5	0	2,657	0	0	-90	0	
5	3344.44	65,047	-2,299	21	0	0	4	0	2,316	0	0	0	0	
6	3342.02	62,880	-2,167	16	0	1	0	1	2,143	0	1	-39	0	
7	3339.55	60,708	-2,172	15	0	1	0	0	2,055	0	0	-133	0	
8	3337.33	58,790	-1,918	110	0	1	0	0	1,929	0	1	-99	0	
9	3338.03	59,391	601	2,641	0	1	1	0	2,065	0	0	25	0	
10	3339.07	60,290	899	2,967	0	1	1	0	2,088	0	1	21	0	
11	3340.00	61,101	811	2,892	0	0	0	0	2,134	0	0	53	0	
12	3340.98	61,960	859	2,972	0	0	0	0	2,167	0	1	55	0	
13	3341.88	62,756	796	2,976	0	0	0	0	2,141	0	0	-39	0	
14	3342.36	63,182	426	2,914	0	0	0	0	2,514	0	1	27	0	
15	3342.58	63,378	196	2,933	0	0	3	1	2,515	0	0	-218	0	
16	3343.28	64,004	626	2,911	0	1	5	0	2,521	0	1	241	0	
17	3343.62	64,309	305	2,947	0	1	4	0	2,554	0	0	-85	0	
18	3344.07	64,713	404	3,032	0	1	4	0	2,545	0	1	-79	0	
19	3344.44	65,047	334	2,818	0	1	4	0	2,605	0	0	124	0	
20	3345.47	65,982	935	2,757	522	1	3	1	2,387	0	1	47	0	
21	3345.92	66,392	410	3,051	0	1	4	0	2,610	0	0	-28	0	
22	3345.98	66,447	55	2,379	0	1	4	0	2,299	0	1	-21	0	
23	3345.67	66,164	-283	2,801	0	1	6	0	3,088	0	0	9	0	
24	3345.81	66,292	128	2,978	0	1	2	1	2,825	0	1	-22	0	
25	3345.87	66,347	55	838	2,231	1	4	0	2,795	0	41	-175	0	
26	3345.90	66,374	27	0	2,622	1	4	0	2,339	0	101	-152	0	
27	3345.76	66,246	-128	0	2,981	1	3	0	2,853	0	113	-141	0	
28	3345.90	66,374	128	0	2,981	1	3	0	2,830	0	113	92	0	
29	3345.59	66,091	-283	0	2,981	1	0	1	2,700	0	113	-451	0	
30	3345.81	66,292	201	0	2,981	1	1	0	2,706	0	113	39	0	
31	3345.84	66,319	27	0	2,981	1	0	0	2,715	0	113	-127	0	
Total				-3,641	54,145	22,970	21	81	5	79,132	0	717	-842	0

1/ Project water delivered from Mojave Siphon in exchange for like amount of natural stream flow.

Table 30. Lake Perris

Daily Operation

(in acre-feet except as noted)

Capacity: 131,452 ac-ft

October 2010

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow 1/	Outflow 2/	Computed Losses (-) Gains (+) 1/
Sep 30	1555.63	61,200				
1	1555.41	60,822	-378		65	
2	1555.41	60,822	0		64	
3	1555.38	60,770	-52		23	
4	1555.41	60,822	52		65	
5	1555.47	60,925	103		65	
6	1555.44	60,873	-52		67	
7	1555.52	61,011	138		65	
8	1555.49	60,959	-52		69	
9	1555.41	60,822	-137		69	
10	1555.41	60,822	0		69	
11	1555.47	60,925	103		71	
12	1555.44	60,873	-52		69	
13	1555.36	60,736	-137		69	
14	1555.41	60,822	86		70	
15	1555.47	60,925	103		70	
16	1555.44	60,873	-52		69	
17	1555.60	61,148	275		69	
18	1555.52	61,011	-137		70	
19	1555.55	61,058	47		69	
20	1555.55	61,062	4		70	
21	1555.63	61,200	138		70	
22	1555.58	61,114	-86		69	
23	1555.60	61,148	34		70	
24	1555.63	61,200	52		69	
25	1555.58	61,114	-86		70	
26	1555.49	60,959	-155		70	
27	1555.49	60,959	0		69	
28	1555.47	60,925	-34		70	
29	1555.44	60,873	-52		69	
30	1555.52	61,011	138		69	
31	1555.36	60,736	-275		71	
Total			-464	3,517	2,083	-1,898

1/ Readings are not taken on a daily basis. End of month only.

2/ Includes deliveries to MWD from Reach 28J and recreation water to California State Park at Lake Perris.

Table 31. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (East Branch)

(In acre-feet)

October 2010

Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries						
	Beginning and Ending				Table A	Rec.	Pool A	Local	Article 56C	Other	
	No.	Structure	Mile								
17E	40	Edmonston Pumping Plant	293.45	157,098							
	41		298.65		KCWA Tej.-Cas	Stub					
17F		Check No. 41	303.41								
	42		304.99	0	AVEK WA-Temp for TEA construction (T389)						
18A		Check No. 42	304.99								
43	Alamo Powerplant	305.73	84,982	(Includes 75,159 AF generation, 0 AF plant bypass, and 9,823 AF Tehachapi Bypass)							
	19				306.71	AVEK 305th Street West (T287)	0				
		308.05	0	AVEK 294th Street West (T267)							
44	Check No. 43	309.70									
		311.84	0	LADWP Connection							
45		313.50		AVEK 245th Street West (T269)	0						
	Check No. 44	314.81									
46		314.93	0	AVEK 235th Street West (T270)							
		315.57		AVEK 225th Street West (T271)	0						
47	Check No. 45	319.74									
		323.19	1,114	Antelope Valley-East Kern WA Fairmont (T272)							
	20A				Mojave Water Agency Fairmont (T272)	78					
48	Check No. 46	323.84	1,114	Reach 19 Total:	1,192						
49	Check No. 47	326.77									
		326.91	47	Antelope Valley-East Kern WA Willow Springs (T273)							
	20B				329.65	Antelope Valley-East Kern WA 120th Street West	Removed				
50	Check No. 48	330.82									
	Check No. 49	335.93									
51		336.73	3,759	Antelope Valley-East Kern WA Quartz Hill (T274)							
		339.68		Antelope Valley-East Kern WA Rancho Vista (T275)	19						
52		340.92	0	AVEK WA-Temp (T387)							
	Check No. 50	341.51									
53		342.06	0	AVEK WA-Temp (T386)							
	Check No. 51	342.07									
21	54		342.95	0	Antelope Valley-East Kern WA 30th Street West (T414)						
		Check No. 52	343.74								
	55		346.98	1,279	Palmdale WD (T276) Temp.						
		Check No. 53	348.14		Antelope Valley-East Kern WA Acton Treatment Plant (T277)	51					
	56	Check No. 54	348.17								
			349.52		Palmdale WD (T394)	0					
	57	Check No. 55	350.25								
		Check No. 56	352.70								
	58		354.76								
			354.97	0	AVEK WA- Delivered through Littlerock Creek ID (T278)						
22A			354.97		Palmdale WD (T276)	0					
59		354.97		Palmdale WD (T391)	0						
	Check No. 57	356.93									
60		357.60	64	AVEK 95th Street East (T279)							
		357.72		AVEK 96th Street East (T280)	0						
61		359.76	219	AVEK East Side Treatment Plant (T281)							

Table 31. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (East Branch, Continued)

(In acre-feet)

October 2010

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
	Beginning and Ending		No.			Table A	Rec.	Pool A	Local	Article 56C	Other		
	No.	Structure	Mile										
22B	58	Pearblossom Pumping Plant	360.61		79,618	490	3,836	707	5	1 / 0			
	59	Check No. 59	366.09										
	60		366.50	AVEK Big Rock Siphon (T368)	0								
		Check No. 60	373.94										
	61	Check No. 61	379.00										
	62	Check No. 62	384.26										
	63		389.20	Mojave Water Agency White Road 24" & 42" (T282)	490								
	64	Check No. 64	395.10										
	65	Check No. 65	400.32										
	66		401.10	Mojave Water Agency Morongo 24" & 42" (T284)	3,836								
		Check No. 66	403.41										
23		Mojave Siphon	405.58	Las Flores Ranch Exchange	0								
		Mojave Siphon Powerplant	405.65		0								
24	67	Silverwood Lake		MWA CS DAM (T288)	707	81	5	707	1 / 0				
			407.65	California State Park Silverwood (T288)	5								
				Creastline-Lake Arrowhead WA State Project Water (T289)	81								
			407.70	Non-Project Water (T289)	0								
25		San Bernardino Intake Tunnel			79,132								
26A	68	Devil Canyon Afterbay Control Structures	412.73		79,132	2/ 10,000	5,429	13,472	9,557	4/ 500			
				MWD-Rialto (T292)	0								
				MWD-Rialto (T293)	19,557								
				Desert Water Agency Transfer (T293)	5,429								
				Coachella Valley WD Transfer (T293)	13,472								
				MWD EBX-1 (T290)	0								
				MWD EBX-1 (T291)	0								
				East Branch Extension	9,102								
				MWD (T294)	11,401								
28G	69	Santa Ana Valley Pipeline	425.46			3,952	704	1,747	10,275	145			
28H				Desert Water Agency (T295)	704								
			433.06	Coachella Valley WD (T296)	1,747								
28J				MWD-SC Box Springs (T295)	4,982								
Lake Perris		440.05	MWD-SC Perris Bypass Pipeline (T296)	10,275									
		442.00	MWD-SC (T297)	145									
			MWD-SC 54" & 78" (T299)	1,903									
			Calif. State Park										
			Lake Perris Parks & Rec. (T298)	34									
				MWD Total:	81,269	45,930	0	0	0	29,209	6,130		

1/ Project water delivered from Mojave Siphon in exchange for like amount of natural stream flow.

2/ San Bernardino Valley MWD Table A delivered to MWDSC.

3/ Includes 2,539 AF to San Gabriel Valley MWD, 5,539 AF to San Bernardino Valley MWD, and 524 AF to San Gorgonio Pass WA.

4/ Exchange of Table A between San Gorgonio Pass WA and Castaic Lake Agency WA.

5/ SWP Supply Exchange.

Table 32. Water Quality At Selected SWP Locations

October 2010

Constituent	Units	Thermalito Afterbay At Outlet	North Bay Aqueduct Barker Slough Pumping Plant	Delta Mendota Canal At McCabe Rd.	California Aqueduct					
					Banks Pumping Plant	O'Neill Forebay Outlet (Check 13)	Kettleman City (Check 21)	Near Hwy 119 (Check 29)	Tehachapi Afterbay (Check 41)	Devil Canyon Headworks
Alkalinity	mg/l as CaCO ₃	40	89	73	68	71	73	74	72	70
Antimony	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NR	NR
Arsenic	mg/l	<0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Beryllium	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/l	<0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bromide	mg/l	<0.01	0.03	0.24	0.29	0.29	0.30	0.30	0.27	0.31
Calcium	mg/l	9	16	19	16	18	18	18	19	18
Chloride	mg/l as C	1.0	14.0	71.0	89.0	89.0	90.0	91.0	86.0	94.0
Chromium	mg/l as C	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0	<0.001	<0.001
Copper	mg/l	<0.001	0	0	0	0	0	0	0	0
Fluoride	mg/l	NR	NR	NR	NR	NR	NR	NR	NR	NR
Hardness	mg/l	44.000	88.000	97.000	93.000	97.000	100.000	101.000	105.000	99.000
Iron	mg/l	0.0	0.0	0.0	0.0	0.0	<0.005	<0.005	0.0	<0.005
Lead	mg/l as CaCO ₃	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/l	4.000	12.000	12.000	13.000	13.000	13.000	13.000	14.000	13.000
Manganese	mg/l	<0.005	0.019	<0.005	0.027	<0.005	<0.005	<0.005	<0.005	<0.005
Nitrate + Nitrite	mg/l	<0.01	0	1	0	0	0	0	0	0
Organic Carbon, Dissolved	mg/l	NR	3.200	2.700	2.700	2.600	2.600	2.700	2.700	2.900
Organic Carbon, Total	mg/l as N	NR	3.40	2.80	2.80	2.60	2.80	2.80	2.80	4.20
Phosphate-Ortho	mg/l as P	<0.01	0.07	0.07	0.04	0.05	0.06	NR	0.06	0.07
Phosphorus-Total	mg/l	0	0.10	0.08	0.06	0.06	0.08	0.08	0.08	0.16
Selenium	mg/l	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	0.001	<0.001	<0.001
Sodium	mg/l	3	19	50	56	57	59	60	59	60
Specific Conductance	µS/cm	86	250	449	471	487	492	483	490	506
Sulfate	mg/l	2	13	31	22	26	26	25	26	25
Total Dissolved Solids	mg/l	50	139	247	260	270	271	269	271	275
Turbidity	NTU	2	22	7	3	2	3	4	4	18
Zinc	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.021	<0.005	<0.005

mg/l milligrams per liter

µg/l micrograms per liter

µS/cm microSiemens per centimeter

NR - Not Reported

NTU - nephelometric turbidity units

Table 33. Water Quality At Selected Delta Stations

October 2010

Date	Antioch Tides (feet above mean sea level)		Flow In CFS		Electrical Conductivity in millisiemens/cm								Cl in mg/l			
			Net Delta Outflow Index		Rio Vista	Antioch	Chipps Island	Emmaton		Jersey Point		Clifton Court	Cache Slough	Delta Mendota Canal		
	Highest High Tide	Actual High Half Tide	Mean Daily	Monthly Average				md	md	md	14dm	md	14dm	md	md	
38	1	5.93	4.41	4,266	4,266	7,572	3.02	9.93	0.54	0.43	1.19	1.21	0.47	0.46	0.38	163
	2	5.93	4.19	4,693	4,479	7,851	2.68	8.64	0.44	0.42	1.09	1.18	0.46	0.44	0.37	156
	3	5.93	4.20	4,509	4,489	7,707	2.79	9.13	0.58	0.44	1.14	1.16	0.47	0.39	0.37	180
	4	5.79	4.09	4,267	4,434	7,072	2.83	8.79	0.65	0.45	1.17	1.15	0.46	0.44	0.37	186
	5	5.66	3.95	3,899	4,327	7,085	2.67	8.27	0.53	0.46	1.11	1.14	0.47	0.47	0.37	192
	6	5.76	3.96	3,827	4,243	7,022	2.89	8.73	0.64	0.49	1.13	1.13	0.48	0.47	0.38	201
	7	5.88	3.93	3,933	4,199	6,809	2.87	9.03	0.66	0.51	1.13	1.13	0.47	0.48	0.38	205
	8	6.02	3.87	3,910	4,163	6,525	2.92	9.00	0.77	0.55	1.13	1.13	0.47	0.47	0.43	208
	9	6.02	3.84	3,416	4,080	6,260	2.98	9.23	0.81	0.59	1.09	1.13	0.47	0.47	0.47	206
	10	6.10	3.92	2,695	3,941	5,845	3.18	9.48	0.89	0.63	1.13	1.14	0.48	0.43	0.46	203
	11	6.12	4.00	2,179	3,692	5,415	3.43	9.93	0.96	0.67	1.23	1.15	0.49	0.42	0.46	204
	12	5.86	3.95	4,462	3,756	5,232	3.48	9.59	1.00	0.71	1.26	1.16	0.50	0.44	0.44	159
	13	5.63	3.95	2,554	3,664	6,421	3.71	10.01	0.95	0.73	1.29	1.17	0.49	0.42	0.43	204
	14	5.34	3.88	2,610	3,589	7,733	3.68	9.87	0.84	0.73	1.27	1.17	0.49	0.43	0.42	150
	15	5.34	3.96	4,093	3,622	6,414	3.93	10.56	0.96	0.76	1.32	1.18	0.49	0.43	0.40	201
	16	5.22	3.96	3,301	3,602	4,657	4.14	11.62	0.96	0.80	1.32	1.19	0.48	0.41	0.43	199
	17	5.16	3.77	3,005	3,567	4,350	3.94	11.32	0.84	0.82	1.29	1.20	0.47	0.39	0.42	193
	18	5.17	3.66	4,748	3,633	4,881	3.61	10.51	0.73	0.82	1.22	1.21	0.47	0.42	0.44	148
	19	5.31	3.74	4,767	3,692	4,951	3.85	10.72	0.80	0.84	1.27	1.22	0.47	0.42	0.46	184
	20	5.50	3.90	4,519	3,734	4,807	4.24	11.32	0.98	0.87	1.36	1.24	0.48	0.45	0.47	118
	21	5.57	3.79	4,653	3,824	4,736	4.34	11.53	1.01	0.89	1.37	1.25	0.48	0.56	0.46	187
	22	5.66	3.80	4,369	3,849	4,738	4.30	11.21	1.04	0.91	1.39	1.27	0.47	0.63	0.44	193
	23	5.88	3.92	4,408	3,873	4,460	4.74	11.64	1.37	0.95	1.46	1.30	0.48	0.61	0.44	206
	24	6.56	4.39	5,612	3,946	4,659	5.97	13.61	2.40	1.06	1.82	1.35	0.49	0.57	0.44	196
	25	6.04	4.14	8,900	4,144	5,948	5.23	12.28	1.37	1.09	1.49	1.37	0.48	0.51	0.43	185
	26	5.85	3.96	11,682	4,434	7,656	4.42	10.47	1.00	1.09	1.27	1.37	0.46	0.47	0.41	179
	27	5.75	3.82	13,440	4,767	9,451	3.77	9.54	0.97	1.09	1.20	1.36	0.45	0.45	0.40	169
	28	5.78	3.93	14,560	5,117	10,883	3.50	9.08	0.76	1.09	1.19	1.35	0.43	0.47	0.38	164
	29	5.49	3.96	13,364	5,401	9,321	3.44	8.82	0.78	1.07	1.16	1.34	0.42	0.49	0.37	160
	30	5.36	3.96	5,603	5,408	7,006	3.52	9.91	0.79	1.06	1.15	1.33	0.41	0.55	0.35	178
	31	4.99	3.60	5,518	5,412	6,513	3.16	9.16	0.65	1.05	1.01	1.31	0.41	0.61	0.36	170

Clifton Court Cl(mg/l)=200X EC - 25

e = Estimated

f = Excess Delta conditions with fish concerns.

N.R. = No Record.

r = Excess delta conditions with export/inflow ratio concerns.

N.C. = Not computed due to insufficient data.

s = Balanced water conditions with storage withdrawals.

dm = Daily Mean

md = Mean Daily

Table 34. Pesticides, Herbicides, and Other Organic Substances Detected In the SWP

October 2010

Sampling Location	Sample Date 1/	Chemical Detected	Concentration µg/l 2/
North Bay Aqueduct At Barker Slough Pumping Plant	June 16, 2010	Diuron Metolachlor	0.32 0.40
California Aqueduct At Banks Pumping Plant	September 15, 2010	2,4-D	0.40
O'Niell Forebay Outlet Check 13	June 15, 2010	Simazine	0.02
Delta Mendota Canal At McCabe Road	June 15, 2010	Methoxychlor	0.06
California Aqueduct Near Kettleman City (Check 21)	June 15, 2010	Metolachlor Simazine	0.10 0.02
California Aqueduct At Near Highway 119 (Check 29)	June 21, 2010	Simazine	0.02
California Aqueduct at Tehachapi Afterbay (Check 41)	June 16, 2010	Metolachlor Simazine	0.10 0.02
California Aqueduct At Devil Canyon Headworks	June 16, 2010	Simazine	0.02

1/ Locations are normally sampled during March, June, and September. Monthly reports will include data for the month in which samples were most recently taken.

2/ Micrograms per liter.

Table 35. Oroville and Delta Field Divisions Energy Data

(in kWh)

October 2010

Date	Oroville Thermalito Complex		Barker Slough Pumping Plant	Cordelia Pumping Plant Load	Banks Pumping Plant		South Bay Pumping Plant Load	Del Valle Pumping Plant Load
	Generation	Load			Total Load	SWP Load		
1	4,700,014	6,182	45,279	51,395	3,316,656	2,637,656	371,434	489
2	4,982,285	10,593	38,948	42,930	3,279,376	2,600,376	359,717	538
3	3,995,310	10,439	41,292	46,038	3,422,056	2,743,056	325,618	529
4	3,834,171	10,736	38,295	47,217	3,380,624	2,701,624	345,247	672
5	2,865,126	10,912	32,450	40,199	3,385,816	2,706,816	395,531	2,896
6	2,807,200	11,484	35,898	45,644	3,263,416	2,584,416	449,288	5,023
7	2,396,009	17,149	32,787	37,707	3,344,560	2,665,560	432,996	5,017
8	4,334,935	10,648	37,170	47,647	3,100,840	2,421,840	425,932	4,992
9	3,353,471	10,912	32,338	43,404	3,337,936	2,665,936	419,984	4,998
10	3,733,092	10,978	27,783	33,136	3,330,496	2,784,496	431,670	5,030
11	4,279,902	10,780	29,518	29,204	3,334,488	3,334,488	330,448	3,017
12	4,081,583	10,637	32,133	28,930	2,802,192	2,802,192	16,697	515
13	5,242,402	7,942	34,549	31,534	2,045,472	2,045,472	19,193	522
14	5,798,485	6,963	33,573	31,123	2,666,320	2,666,320	142,668	536
15	7,716,038	0	33,246	30,513	2,182,496	2,182,496	216,318	567
16	5,568,475	6,193	33,998	33,904	2,487,464	2,487,464	260,598	540
17	2,109,371	14,696	29,529	28,520	2,736,168	2,736,168	264,025	649
18	3,287,515	13,750	28,397	28,527	2,690,000	2,690,000	291,628	738
19	3,656,554	10,758	26,200	27,354	2,789,600	2,789,600	249,065	652
20	4,292,277	7,150	24,380	27,315	2,724,680	2,724,680	235,872	691
21	3,426,874	16,137	35,927	42,650	2,518,696	2,518,696	324,995	3,294
22	3,105,674	16,115	26,695	35,945	2,443,048	2,443,048	357,617	7,775
23	3,437,071	18,381	24,362	28,804	1,561,352	1,561,352	385,136	9,800
24	2,303,191	18,986	19,411	25,662	1,636,800	1,636,800	341,642	9,703
25	3,046,175	17,237	33,899	35,839	2,201,680	2,201,680	339,745	9,686
26	2,971,870	17,204	34,227	33,693	2,486,792	2,486,792	366,781	13,391
27	2,992,165	16,654	30,378	38,738	2,774,344	2,774,344	355,231	15,658
28	3,262,391	17,303	29,315	36,781	3,332,440	3,332,440	336,191	16,278
29	3,388,891	17,853	25,453	31,140	3,307,904	3,307,904	370,405	16,301
30	2,335,597	17,380	25,640	34,505	3,325,136	3,325,136	279,004	6,894
31	3,656,928	17,094	23,403	27,995	3,330,688	3,330,688	272,037	6,200
Total	116,961,042	389,246	976,472	1,103,992	88,539,536	81,889,536	9,712,706	153,594

Table 36. San Luis Field Division Energy Data

(in kWh)

October 2010

Date	Dos Amigos Pumping Plant		Gianelli Pumping-Generating Plant			
	Total Load	SWP Load 1/	Total Generation	SWP Generation 1/	Total Load	SWP Load 1/
1	1,772,388	1,456,386	0	0	1,120,900	42,900
2	1,644,640	1,328,647	0	0	636,350	48,350
3	1,710,223	1,386,221	0	0	18,656	18,656
4	1,180,694	864,696	0	0	1,090,958	1,090,958
5	1,173,139	857,140	0	0	1,619,981	737,981
6	1,349,968	1,033,970	0	0	19,294	-4,706
7	1,077,511	761,515	0	0	1,265,990	1,241,990
8	1,158,392	842,390	0	0	1,492,997	610,997
9	1,366,907	1,051,907	0	0	2,835,569	1,929,569
10	1,304,186	1,040,188	0	0	3,226,773	1,315,773
11	1,130,954	874,951	0	0	1,365,925	483,925
12	1,193,746	937,747	0	0	1,529,946	206,946
13	1,200,139	944,137	0	0	641,212	53,212
14	1,082,695	826,694	0	0	743,468	743,468
15	1,212,997	956,993	0	0	1,217,931	613,931
16	1,312,583	1,056,581	0	0	1,033,329	445,329
17	1,248,102	984,102	0	0	1,022,219	140,219
18	1,400,533	1,144,529	0	0	1,026,047	438,047
19	1,343,882	1,087,879	0	0	641,025	29,025
20	1,298,511	1,042,511	0	0	917,433	43,433
21	1,260,284	1,004,282	0	0	918,137	60,137
22	1,285,157	1,029,156	0	0	634,260	46,260
23	1,413,898	1,157,897	0	0	636,383	24,383
24	1,191,910	927,913	0	0	636,042	48,042
25	1,318,507	1,062,505	0	0	636,152	48,152
26	1,290,719	1,034,717	0	0	1,117,281	1,101,281
27	1,395,425	1,139,426	0	0	1,965,876	789,876
28	1,409,427	1,153,425	0	0	2,467,025	1,291,025
29	1,407,559	1,151,559	0	0	1,793,968	593,968
30	1,340,415	1,084,415	0	0	2,196,095	1,020,095
31	1,243,512	979,512	0	0	3,159,079	415,079
Total	40,719,002	32,203,991	0	0	39,626,301	15,668,301

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

Table 37. San Joaquin Field Division Plant Energy Load Data

(in kWh)

October 2010

Date	Coastal Branch					California Aqueduct			
	Las Perillas	Badger Hill	Devil's Den	Bluestone	Polonio	Buena Vista	Teerink	Chrisman	Edmonston
1	22,450	57,221	75,100	70,100	75,135	1,766,833	1,773,086	3,904,802	14,410,548
2	24,581	59,025	71,369	65,576	70,139	1,642,059	1,746,974	3,876,884	14,235,966
3	24,027	58,599	65,129	61,611	65,256	1,572,799	1,626,172	3,638,283	13,409,010
4	21,268	51,761	59,547	54,041	58,860	910,692	947,439	2,048,739	7,615,944
5	17,926	41,059	44,541	41,875	44,759	737,302	799,736	1,763,652	6,322,104
6	19,437	47,920	41,338	38,265	42,014	850,511	750,341	1,619,816	6,137,316
7	17,818	43,758	35,125	32,441	35,204	784,701	727,245	1,588,917	5,859,891
8	21,620	54,596	59,933	56,896	58,959	835,301	800,599	1,790,668	6,394,383
9	23,522	60,393	49,067	45,341	48,739	1,466,678	1,557,349	3,507,592	13,115,547
10	27,850	69,646	54,299	49,738	54,126	1,446,025	1,511,546	3,389,452	12,590,154
11	19,993	49,785	52,369	49,312	52,115	1,151,365	1,191,262	2,643,465	9,766,467
12	19,611	50,756	56,083	52,640	57,044	1,130,062	1,203,923	2,700,940	10,059,795
13	25,364	64,351	61,495	56,414	61,451	1,156,846	1,186,407	2,647,601	9,759,231
14	22,137	55,848	63,817	60,407	63,998	960,988	971,131	2,146,265	7,881,732
15	16,283	41,281	63,775	58,414	64,695	1,086,206	1,091,317	2,434,751	8,982,360
16	22,599	52,370	63,811	59,249	63,744	1,319,404	1,378,840	3,092,111	11,564,289
17	17,819	44,495	58,322	55,852	57,422	1,380,287	1,422,954	3,194,026	11,899,089
18	14,370	35,886	70,114	65,795	69,426	1,502,100	1,590,529	3,533,354	13,110,552
19	12,907	32,370	57,600	54,681	57,997	1,509,050	1,639,008	3,652,242	13,477,266
20	17,012	41,995	52,457	48,413	53,083	1,460,088	1,569,091	3,441,284	12,668,670
21	12,293	31,532	40,927	38,759	41,669	1,369,368	1,468,004	3,251,985	12,010,653
22	8,676	23,052	35,306	33,064	34,468	1,357,463	1,471,871	3,278,759	12,368,430
23	17,639	43,906	36,503	32,948	36,613	1,499,483	1,613,860	3,631,287	13,468,545
24	15,941	39,675	33,282	31,422	34,682	1,472,778	1,623,283	3,624,841	13,436,604
25	15,213	39,262	39,108	36,852	39,684	1,470,071	1,588,531	3,557,224	13,188,744
26	24,104	54,501	27,906	27,360	29,115	1,339,889	1,470,089	3,316,434	12,249,657
27	27,971	59,582	15,346	13,613	14,986	1,450,499	1,602,225	3,599,453	13,354,308
28	16,385	35,629	35,222	34,086	36,613	1,480,990	1,600,807	3,594,789	13,114,575
29	3,942	10,539	33,025	29,846	34,026	1,460,903	1,578,985	3,571,304	13,338,783
30	1,209	3,631	15,160	19,147	24,370	1,452,748	1,555,720	3,484,371	13,011,381
31	1,194	1,513	9,335	9,422	9,583	1,346,812	1,447,693	3,278,880	12,351,582
Total	553,162	1,355,935	1,476,413	1,383,579	1,489,975	40,370,297	42,506,015	94,804,171	351,153,576

Table 38. Southern Field Division Energy Data

(in kWh)

October 2010

Date	West Branch			East Branch				East Branch Extension		
	Oso Pumping Plant Load	Warne Powerplant Generation	Castaic SWP Gen /1	Alamo Powerplant Generation	Pearblossom Pumping Plant Load	Devil Canyon Powerplant Generation	Mojave Siphon Powerplant Generation	Green spot Pumping Plant	Crafton Hills Pumping Plant	Cherry Valley Pumping Plant
1	541,265	1,145,645	1,752,000	317,648	2,600,460	4,736,808	204,922	47,556	65,806	5,035
2	955,193	1,477,329	1,752,000	317,720	2,052,821	4,086,454	155,662	46,060	64,413	4,688
3	662,865	1,480,129	1,752,000	332,654	2,054,724	3,190,655	155,017	46,088	64,379	4,680
4	650,290	1,481,701	2,160,000	71,440	395,951	3,226,129	31,898	46,378	64,228	4,581
5	649,072	1,480,785	2,160,000	27,965	0	2,800,879	0	46,556	64,152	4,259
6	639,660	1,482,667	2,160,000	27,522	0	2,584,253	0	46,527	64,108	3,948
7	626,035	1,484,109	2,160,000	27,355	0	2,465,561	0	48,907	66,269	4,205
8	622,570	1,481,055	2,160,000	69,432	210,449	2,312,136	6,838	50,347	66,980	4,263
9	684,338	1,479,800	2,880,000	330,117	2,055,973	2,482,038	229,523	50,797	67,159	4,251
10	546,664	1,081,393	2,880,000	329,946	2,056,649	2,521,714	258,276	50,972	67,273	4,409
11	316,371	627,626	1,032,000	329,726	2,054,672	2,557,530	248,730	42,585	56,074	4,365
12	313,576	709,722	1,032,000	329,689	2,056,627	2,606,418	256,238	39,852	53,107	4,485
13	291,444	624,189	1,032,000	327,891	2,056,530	2,590,693	255,803	41,771	55,355	4,582
14	0	628,241	1,032,000	314,786	2,053,146	3,021,109	245,471	51,586	67,114	4,704
15	111,943	624,291	1,032,000	318,031	2,052,664	3,039,037	246,506	51,429	66,875	4,473
16	488,384	624,875	1,032,000	327,855	2,030,755	3,050,248	243,260	51,520	66,873	4,444
17	475,963	631,919	1,032,000	328,890	2,054,202	3,090,992	246,002	50,645	66,800	4,452
18	642,993	1,565,228	2,520,000	313,117	2,054,998	3,083,656	254,396	50,567	66,735	3,838
19	697,794	1,566,038	2,520,000	328,062	2,052,239	3,159,202	230,216	50,105	66,743	3,539
20	677,500	1,565,120	2,520,000	300,115	2,054,642	2,893,381	228,632	49,836	66,713	3,801
21	679,755	1,564,070	2,520,000	340,281	2,040,219	3,161,207	248,954	50,225	66,684	3,855
22	676,981	1,540,415	2,520,000	301,302	1,506,333	2,783,765	180,876	50,209	66,678	3,797
23	682,796	1,586,968	2,520,000	322,623	2,053,195	3,714,203	227,685	50,259	66,672	3,813
24	683,151	1,587,117	2,520,000	307,296	2,051,488	3,424,950	248,429	49,908	66,612	3,823
25	682,483	1,586,264	2,520,000	317,059	1,850,108	3,381,836	69,912	50,525	66,869	3,723
26	772,695	1,575,177	2,520,000	299,714	1,654,374	2,827,008	0	47,997	64,582	3,690
27	682,685	1,516,220	2,520,000	324,690	2,055,160	3,448,415	0	49,331	65,755	3,674
28	739,633	1,497,425	2,520,000	312,388	2,053,742	3,398,022	0	49,495	66,123	3,748
29	747,592	1,494,569	2,520,000	336,054	2,051,467	3,258,331	0	47,491	64,070	3,731
30	682,091	1,493,829	2,520,000	334,195	2,050,772	3,266,770	0	47,273	63,994	3,694
31	610,161	1,495,176	2,520,000	314,157	2,025,210	3,285,014	0	47,266	64,006	3,893
Total	18,233,943	40,179,092	64,320,000	8,579,720	53,339,568	95,448,413	4,473,244	1,500,063	2,009,201	128,441

1/ Energy delivered to SWP by LADWP at Sylmar substation; not necessarily related to actual Castaic operations.